URS CONSULTANTS, INC.

MEMORANDUM

62760.05.20.256
15.b1

TO: Ms. Monica Rolluda, HW-114, U.S. EPA Region 10

FROM: Ms. Kara Steward, URS Consultants, Inc.

DATE: January 25, 1993

SUBJECT: Site Inspection Recommendations
Avery Railroad Dump and Roundhouse
CERCLIS No. IDD984666313

REF: Contract No. 68-W9-0054
Work Assignment No. 54-17-0JZZ

Priority Assessment

It is recommended that no additional work be conducted at this site under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). This recommendation is based on lack of targets at the site.

Follow-up Recommendations

Additional sampling of the downstream residential wells, including the on-site well, should be conducted to substantiate the preliminary conclusion that there is no release of site contaminants to the residential drinking water.

Additional work at the site should include:

- remediation of on-site soils to mitigate the potential for release of site contaminants, including PCBs, to the environment,
- containment or removal of the layer of oily material identified on top of the groundwater at the site, and
- removal of contaminated soils and sediments along the St. Joe River.

SITE INSPECTION REPORT
FOR THE
AVERY RAILROAD DUMP AND ROUNDHOUSE SITE
CERCLIS ID NO. IDD984666313

Prepared for:

Contract No. 68-W9-0054
Work Assignment No. 54-17-0JZZ
United States Environmental Protection Agency
Region 10
1200 Sixth Avenue
Seattle, Washington 98101

Prepared by:

URS Consultants, Inc.
1100 Olive Way, Suite 200
Seattle, Washington 98101

URS Document Control No. 62760.05.20.245.15.b1

CONTENTS (Continued)

Page

5.1.4 Pesticides/PCBs 5-7
5.2 SEDIMENT 5-7
5.2.1 Volatile Organics 5-7
5.2.2 Semivolatile Organics 5-11
5.2.3 Total Metals 5-12
5.2.4 Pesticides/PCBs 5-12
5.3 SURFACE SOIL 5-12
5.3.1 Volatile Organics 5-17
5.3.2 Semivolatile Organics 5-17
5.3.3 Total Metals 5-18
5.3.4 Pesticides/PCBs 5-18
5.4 SUBSURFACE SOIL 5-18
5.4.1 Volatile Organics 5-23
5.4.2 Semivolatile Organics 5-23
5.4.3 Total Metals 5-24
5.4.4 Pesticides/PCBs 5-25
5.5 QUALITY CONTROL SAMPLES 5-25
5.6 SUMMARY 5-26

6.0 REFERENCES 6-1

FIGURES

Number Page

2-1 Site Location Map 2-3
2-2 Site Map 2-4
4-1 Sample Location Map 4-5
4-2 On-Site Sample Location Map 4-6

CONTENTS

Section — Page

ABBREVIATIONS AND ACRONYMS vii

UNITS OF MEASURE viii

1.0 INTRODUCTION 1-1

2.0 BACKGROUND 2-1
- 2.1 Site Location and Description 2-2
- 2.2 Site Operations and Waste Characteristics 2-5
- 2.3 Investigative and Regulatory History 2-8

3.0 POTENTIAL TARGETS 3-1
- 3.1 Groundwater Pathway 3-1
- 3.2 Surface Water Pathway 3-4
- 3.3 Soil Exposure Pathway 3-5
- 3.4 Air Pathway 3-5

4.0 SAMPLING PROGRAM 4-1
- 4.1 Sampling Objectives 4-1
- 4.2 Sampling Methods 4-1
  - 4.2.1 Residential Groundwater Samples (TSOP 5.1) 4-1
  - 4.2.2 Site Monitoring Well Groundwater Samples (TSOP 5.1 and 3.6) 4-7
  - 4.2.3 River Sediment Samples (TSOP 5.5) 4-7
  - 4.2.4 Site Soil Samples (TSOP 5.4) 4-7
  - 4.2.5 Site Seep Samples 4-8
- 4.3 Sample Analytical and Handling Requirements 4-8

5.0 SAMPLE RESULTS AND DISCUSSION 5-1
- 5.1 GROUNDWATER 5-1
  - 5.1.1 Volatile Organics 5-6
  - 5.1.2 Semivolatile Organics 5-6
  - 5.1.3 Total Metals 5-7

ABBREVIATIONS AND ACRONYMS

ARCS	Alternative Remedial Contract Strategy
ARDR	Avery Railroad Dump and Roundhouse
BNA	base-neutral-acid entractable organics
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CLP	Contract Laboratory Program
CMSPR	Chicago, Milwaukee, St. Paul and Pacific Railroad
CRDL	contract-required detection limit (for organic compounds)
CRQL	contract-required quantitation limit (for inorganic compounds)
EPA	United States Environmental Protection Agency
IATA	International Air Transport Association
IDEQ	Idaho Division of Environmental Quality
IDWR	Idaho Department of Water Resources
MCL	maximum contaminant level
MSL	mean sea level
MS	matrix spike
MSD	matrix spike duplicate
MW	monitoring well
NPL	National Priorities List
PA	preliminary assessment
PCB	polychlorinated biphenyl
QAPP	Quality Assurance Program Plan
RR	railroad
RPD	relative percent difference
SI	site inspection
SQL	sample quantitation limit
TSOP	Technical Standard Operating Procedures
URS	URS Consultants, Inc.
USFS	United States Forest Service
USGS	United States Geological Survey
VOC	volatile organic compound
WA	Work Assignment

TABLES

Number		Page
2-1	Site Operations	2-7
2-2	ARDR Site Historical Sample Data	2-9
3-1	Potlatch Well Log	3-1
3-2	Packer Well Log	3-2
3-3	Drinking Water Populations	3-3
3-4	Residential Population	3-6
4-1	Summary of Sample Types, Numbers, and Location	4-2
4-2	Sample Analytical Requirements	4-9
5-1	Significance Criteria for Chemical Analysis	5-2
5-2	Water Sample Results, Avery, Idaho, August 26, 1992	5-3
5-3	Sediment Sample Results, Avery, Idaho, August 25, 1992	5-8
5-4	Surface Soil Sample Results, Avery, Idaho, August 26, 1992	5-13
5-5	Subsurface Soil Sample Results, Avery, Idaho, August 26, 1992	5-19
5-6	Presence of Contaminants of Concern at ARDR	5-27

APPENDIXES

APPENDIX A	Site Plat Map (Circa 1915)
APPENDIX B	Idaho Well Driller's Reports
APPENDIX C	Calculation for Net Precipitation
APPENDIX D	Site Visit and Sampling Photo Documentation Log
APPENDIX E	Discussion of Data Quality Objectives
APPENDIX F	Sample Results (August 25 and 26, 1992)

UNITS OF MEASURE

cfs	cubic foot per second
kg	kilogram
L	liter
lb	pound
mg	milligram
ppm	parts per million
µg	microgram

1.0 INTRODUCTION

Pursuant to United States Environmental Protection Agency (EPA) Contract No. 68-W9-0054 and Work Assignment (WA) No. 54-17-0JZZ, URS Consultants, Inc. (URS) conducted a site inspection (SI) of the Avery Railroad Dump and Roundhouse (ARDR) site located in Avery, Idaho. The EPA SI process is intended to evaluate actual or potential environmental or public health hazards at a particular site relative to other sites across the nation for the purpose of identifying remedial action priorities. The SI process is intended to collect sufficient data to enable evaluation of the site's potential for inclusion on the National Priorities List (NPL) and, for those sites determined to be NPL candidates, establish priorities for additional action. The SI process is also intended to determine the potential for the site to pose a threat to public health or the environment and to document the potential for the release of hazardous constituents from the site into the environment. The SI process and this SI do not include extensive or complete site characterization, contaminant fate determination, or quantitative risk assessment. This SI was performed to collect site samples and evaluate the results in an effort to confirm or deny site characteristics and area receptor information identified in the preliminary assessment (PA) stage.

This document presents the results of the ARDR SI in the following sections:

Section 1.0 Introduction - Summary of the purpose of the SI

Section 2.0 Background - Site description and history summary

Section 3.0 Potential Targets - Discussion of potential exposure pathways

Section 4.0 Sampling Program - Description of sampling conducted

Section 5.0 Sample Results and Discussion - Summary of data results

Section 6.0 References - List of cited references

2.0 BACKGROUND

Site Name: Avery Railroad Dump and Roundhouse
CERCLIS No. IDD984666313

Location: Avery Landing - St. Joe River Road
Avery, Idaho

Latitude: 47° 12′ 13.65″ North Longitude: 115° 49′ 15″ West

Legal: T45N R05E S15 NW 1/4 of the NW 1/4
T45N R05E S16 NE 1/4 of the NE 1/4

Site Owners: Potlatch Corporation
P.O. Box 386
St. Maries, Idaho 83861

Federal Highway Administration
Contact: Mr. Allan Stockman
610 E. 5th
Vancouver, Washington 98661
(206) 696-7751

Mr. David Thierault
Box 3322
Missoula, Montana 59806

Operator: The site is not operational.

Site Contact: Mr. Mike Fish, Construction Services Manager
Potlatch Corporation
P.O. Box 386
St. Maries, Idaho 83861
(208) 245-2585

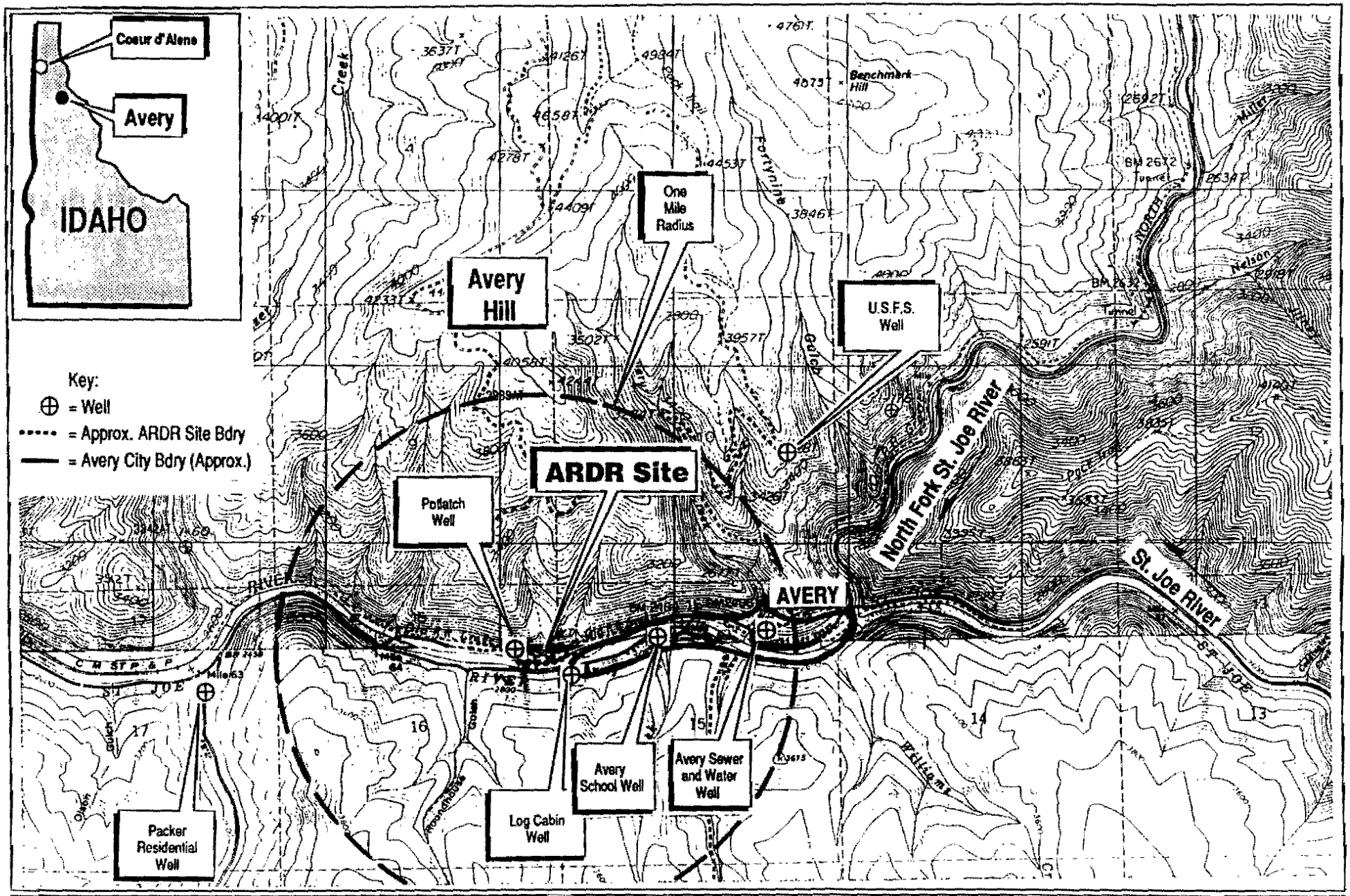
2.1 Site Location and Description

The ARDR site (approximately 7 acres) is located in northeastern Idaho in Shoshone County (Township 45 North, Range 5 East, Sections 15 and 16). The site is approximately 97 miles southeast of Coeur d'Alene, Idaho, and 46 miles east of St. Maries, Idaho. The ARDR site is about 1.2 miles west of the confluence of the St. Joe River and the North Fork of the St. Joe River and 0.75 mile west of the town of Avery, Idaho (Figure 2-1).

The Chicago, Milwaukee, St. Paul and Pacific Railroad (CMSPR) operated a rail yard on the site from 1909 until approximately 1977. The CMSPR retained ownership of the property until 1980 when its railroad holdings in northern Idaho, which included this parcel of land, were purchased by the Potlatch Corporation. At the time of this transaction, it was discovered that the easternmost 2 acres of the ARDR site were owned by David Thierault. The strip of land comprising the northern boundary of this property was sold to the Federal Highway Administration in 1986 for construction of the St. Joe River Road. Therefore, the ARDR site is owned by the Federal Highway Administration, Potlatch Corporation, and David Thierault.

The ARDR site lies at an elevation of approximately 2,540 feet above mean sea level (MSL). The St. Joe River Road and the foot of Avery Hill (peak elevation 4,417 feet MSL) lie along the northern border of the site (approximately 2,600 feet MSL). The site is bordered to the south by the St. Joe River (approximately 2,800 feet MSL). At the widest point, the distance across the site (from the St. Joe River Road to the St. Joe River), is approximately 300 feet. At the east and west ends of the site, the width of the property reduces to approximately 150 feet from the road to the river. The surface of the ARDR site is covered mostly with gravel, soil, or sparse vegetation. Buildings on the site include one on-site residence located on the western end of the site, several "camp" buildings on the western half of the site, and two old railroad buildings located in the central portion of the site. The eastern half of the site is shown in detail in Figure 2-2.

The site is located in a narrow river valley, with both commercial and residential areas nearby. The site itself is reportedly composed of fill materials that have been attributed to former railroad construction (IDEQ 1991a). Additional leveling and grading of the site was conducted by Potlatch after purchase of the property (Fish 1992). The well driller's log for the domestic well located on site, about 300 yards west of the site entrance, indicated approximately 18 feet of fill materials (IDWR 1979).

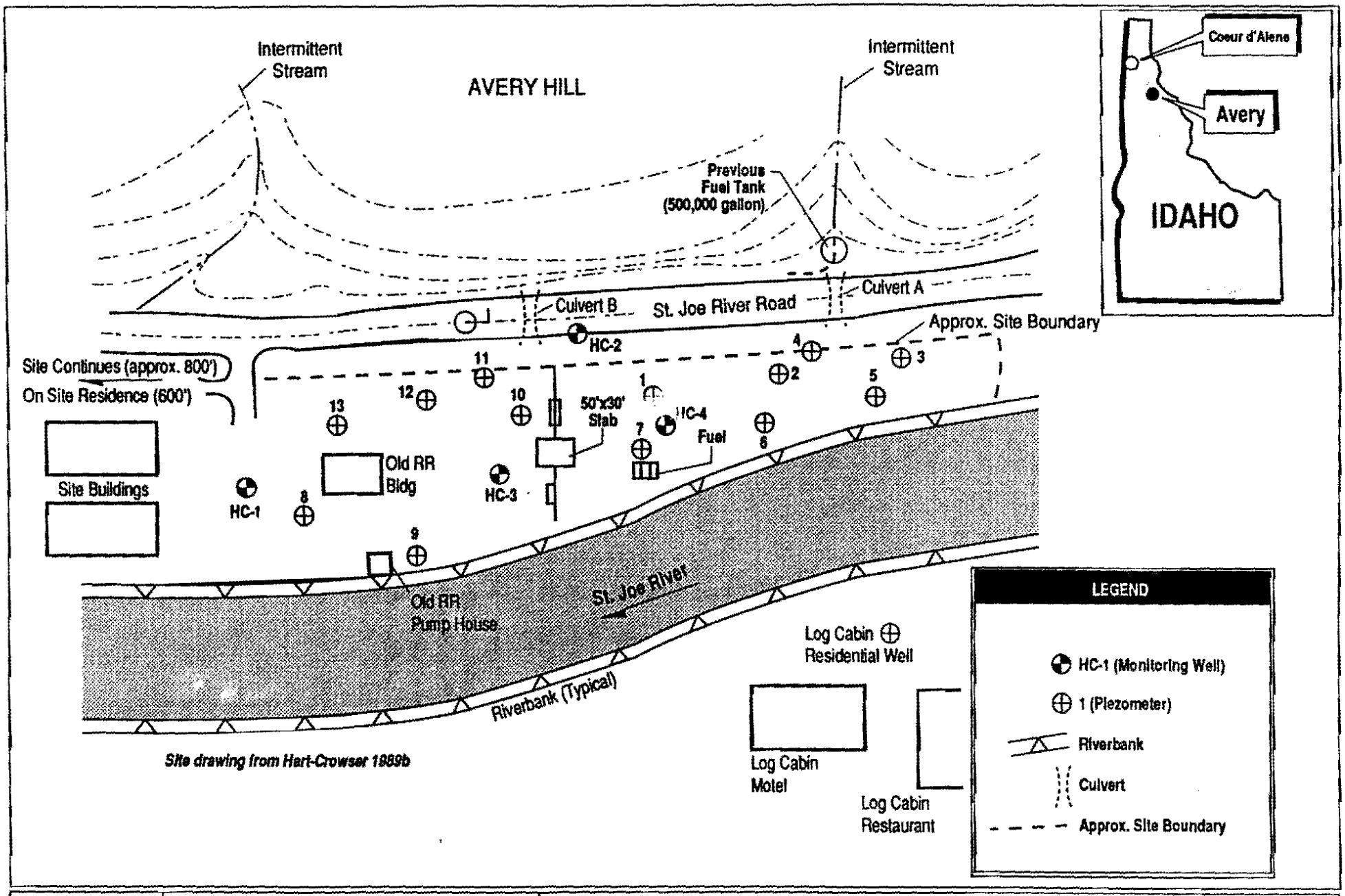


URS CONSULTANTS

Source: U.S.G.S. Topographic Quads

Figure 2-1
Site Location Map

Avery Railroad Dump and Roundhouse Avery, Idaho



Site drawing from Hart-Crowser 1869b

URS CONSULTANTS

NORTH

0 75 150

Scale In Feet

Figure 2-2
Site Map

Avery Railroad Dump and Roundhouse
Avery, Idaho

The St. Joe River Road, the north border of the site, is graded approximately 4 feet above the site. Two culverts divert runoff from Avery Hill under the roadway. One culvert (Culvert A on Figure 2-2) directs water from an intermittent stream, near the east end of the site, under the ARDR site to the St. Joe River. A second culvert (Culvert B on Figure 2-2) directs runoff from Avery Hill under the St. Joe River Road onto the central portion of the ARDR site. The ARDR site has an approximate 3 percent slope, with anticipated overland flow toward the south into the St. Joe River. The land immediately north, east, and west of the site is vacant and undeveloped. The St. Joe River is located immediately south of the site, and the opposite bank of the river is occupied by a restaurant and motel, the Log Cabin.

The residential population and commercial center of Avery are east of the ARDR site on both sides of the St. Joe River. The majority of the buildings in the town of Avery are spread along both the north and south banks of the St. Joe River for approximately 1 mile upstream (east) and 0.25 mile downstream (west). Six area wells serve the Avery population of approximately 100 permanent residents with an additional 60 to 80 seasonal workers (IDEQ 1991a). These wells are 1) the Log Cabin well located south of the St. Joe River, directly across from the eastern portion of the ARDR site; 2) the Avery elementary school well located on the south side of the St. Joe River approximately 0.25 mile east of the ARDR site; 3) the Avery Sewer and Water Department well, about 0.75 mile east of the ARDR site; 4) the United States Forest Service (USFS) well, 1.5 mile northeast of the ARDR site; 5) the Potlatch well, located approximately 300 yards west of the entrance into the ARDR site; and 6) the residential well, at the confluence of Fishhook Creek and the St. Joe River, approximately 1.0 mile west of the ARDR site. The approximate locations of these wells are shown in Figure 2-1. The closest permanently occupied building is located on site approximately 600 feet west of the site entrance. The western end of the site has been leased in the past to contractors housing workers in trailers. It was reported that a trailer park was located on this site from May through October of 1990 (Fish 1992).

2.2 Site Operations and Waste Characteristics

The ARDR site served as a switching station and light maintenance facility from 1909 until 1977. The CMSPR facility included a turntable, roundhouse, machine shop, fan house, engine house, boiler house, storehouses, coal dock, oil house, oil tanks (including a 500,000-gallon fuel oil tank), oil "sinks," various "drains," and a pumphouse (IDEQ 1991a). Before the property was purchased by the Potlatch Corporation in 1980, the

railroad removed most equipment and structures from the site, including the 500,000-gallon fuel oil tank (Fish 1992).

Since 1980, the ARDR site has been used by the Potlatch Corporation for staging, parking, and temporary log storage. "Camp" buildings (former railroad structures) on the site have been used by Potlatch employees for seasonal housing. Electrical connections are located on the site for temporary trailer use. In addition, the Potlatch Corporation allowed the Federal Highway Administration to use the site in 1986 for temporary housing during the construction of the St. Joe River Road (IDEQ 1991a). Other contractors, including the State of Idaho, and hunters (during elk and deer season) have used the property (some without requesting permission from the Potlatch Corporation) for seasonal or temporary housing and for a location to conduct maintenance on vehicles or equipment.

On-site waste generating activities by the CMSPR during operation of the railroad include train refueling, the use of solvents for cleaning engine parts or possibly hosing down locomotives, equipment maintenance, and possible on-site storage of transformers related to the electric railroad service (IDEQ 1991a). Other operations on the site since the Potlatch Corporation purchase include maintenance of equipment by Potlatch or the various site users, resulting in the potential for release of hazardous road construction materials (tar or asphalt). Site activities that may have contributed to the release of hazardous contaminants to the site and the surrounding area are summarized in Table 2-1.

Railroad operations were reported to have used a 500,000-gallon aboveground fuel oil tank for refueling the trains (IDEQ 1991a). The tank was reportedly located on the northeast end of the property in a gully. Fuel oil was stored and used at the site from 1909 until the railroad facility shut down operations in 1977. During the SI site visits, an intermittent stream (shown in Figure 2-2) was observed to be located in the gully where this tank was located (URS 1992a). A 1915 plat map of the site indicated the presence of a "50 foot oil service tank" where this 500,000-gallon fuel oil tank was reported to have been located (Appendix A). The volume of the tank was not shown on the map. The 1915 plat map showed an 8-inch pipe running from the tank to other site structures, including a smaller oil tank along the riverbank. In addition to this pipe that may have been used to transport the fuel oil to other site facilities, a 1.5-inch steam pipe is shown on the plat map. Common railroad operations in the 1900s involved the use of "Bunker C" oil, a thick oil for fueling trains. This type of oil has to be heated in order to be piped to any other location (URS 1992a). That may be the reason for the steam pipe

Table 2-1
Site Operations

Operator	Dates of Operation	Potential Activity	Potential Contaminants
CMSPR	1909-1977	Train fuel oil, site storage of fuel oil	Petroleum hydrocarbons
		Cleaning engine parts and possibly hosing down the locomotive with solvents[a]	Halogenated volatile compounds and waste oils containing metals
		On-site transformer storage	PCB-laden oils
Potlatch	1980-1992	Log storage, including possible maintenance of transport equipment on site	Solvents, waste oils containing metals
		Site rental to various contractors for worker housing, possible maintenance activities on site	Solvents, waste oils containing metals
Federal Highway Administration	1986	Worker housing and possible equipment maintenance during highway construction	Solvents, waste oils containing metals
State of Idaho	1992	Eastern end of site used for gravel storage and mixture of gravels and asphalt during road construction, equipment maintenance observed on site	Solvents, waste oils containing metals

Source: IDEQ 1991a, URS 1992a
[a]Not a documented site activity, but common railroad practice

indicated on the plat map. The fuel oil tank was reportedly removed from the site by the CMSPR after railroad operations ceased (Fish 1992). No records were discovered documenting the dismantling of railroad operations at this site. The railroad files included in the land purchase did not include documentation of activities after 1977 (Fish 1992).

The actual use or alleged improper disposal of solvents has not been documented at this site. However, the use of solvents for cleaning engine parts and even hosing down the locomotive was common practice at similar railroad facilities containing both a turntable and roundhouse (IDEQ 1991a). Interviews with former CMSPR employees revealed that the heavy maintenance of equipment was conducted at the railroad facility in Deer Lodge, Montana. Reportedly, the ARDR site was used for minor repairs (IDEQ 1991a), which may have resulted in the release of solvents, waste oils, and so forth onto the site.

The CMSPR facility in Avery was the end of the electric rail line heading east. A transformer substation was located near the Avery Sewer and Water well shown on Figure 2-1 (approximately 0.75 mile east of the site). This substation reportedly included tanks or vaults for storing transformer oil as well as the transformers (IDEQ 1991a). The use of PCB oils has not been documented. Former CMSPR employees recalled storing transformers on the ARDR site; the exact location or condition of these transformers was not known (IDEQ 1991a). Analytical data collected in 1989 indicated PCB in the floating layer of oily material that lies on top of the water column under the site (Hart-Crowser 1989a).

2.3 Investigative and Regulatory History

The regulatory history of the CMSPR facility is not accurately documented. Files were submitted to Potlatch from the railroad when the properties were purchased. Potlatch reviewed the files for information concerning deeds, transactions, and rights-of-way. The remaining file material does not contain information concerning any hazardous activities at this site (Davis 1993).

The EPA Idaho Operations Office reviewed the ARDR site as a potential hazardous waste site in August of 1988 (EPA 1988a). This review indicated that the site showed visible seepage running into the St. Joe River. The railroad operations were reported to have buried creosote-treated railroad ties at the site and the operations were suspected to have buried waste solvents, fuels, and old transformers at the site.

Potlatch contracted with Hart-Crowser to install groundwater monitoring wells and collect samples from the ARDR site. A 4-foot-thick free-phase hydrocarbon layer was measured in monitoring well HC-4. Hart-Crowser conducted two sampling events at this site: on July 26, 1989, a sample was collected of the floating oil layer in monitoring well (MW)-11 and on August 23, 1989, samples were collected of purged water from site

monitoring wells HC-1, HC-2, HC-3, and HC-4. The Hart-Crowser reports concluded that the wells HC-1 and HC-2 did not appear to be impacted by the petroleum hydrocarbons and the majority of the free-phase petroleum appears to lie beneath the eastern part of the site. The results from samples collected from these site wells are provided in Table 2-2 (Hart-Crowser 1989a, Hart-Crowser 1989b). Figure 2-2 shows the location of the Hart-Crowser wells.

Table 2-2
ARDR Site Historical Sample Data

Parameter	Water Sample Collected July 26, 1989, from MW-11	Purged Water Sample Collected August 23, 1989, from HC-3	Purged Water Sample Collected August 23, 1989, from HC-4
Arsenic	NA	0.009 ppm	ND
Cadmium	ND	ND	ND
Chromium	20 ppm	ND	1 ppm
Lead	30 ppm	ND	5 ppm
Total Petroleum Hydrocarbons	ND	ND	ND
PCB	1.4 ppm	NA	NA

Source: Hart-Crowser 1989a, Hart-Crowser 1989b

Notes:
NA - Not analyzed
ND - Not detected
ppm - parts per million

In addition to the analytical results from the Hart-Crowser investigation, a trench recovery system was proposed by Hart-Crowser for capture of the free-phase product currently moving into the river. This system proposes to dig a recovery trench along the riverbank and dispose of the recovered oily material through burning. The recovery system design was presented by Potlatch to the Idaho Department of Environmental Quality (IDEQ) to identify the magnitude of the problem and the cost of remediation

(Fish 1991, IDEQ 1991a). Following a meeting between the IDEQ, Federal Highway Administration, and Potlatch, comments were submitted from IDEQ to Potlatch concerning the changes requested for the recovery system. The IDEQ indicated that upon completion of the requested changes, the recovery system "would be satisfactory technology to attempt to remove free phase product from the Avery Landing site" (IDEQ 1991b). At the time of the SI sampling (August 1992), Potlatch had not initiated construction of the recovery system.

In May of 1991, the IDEQ submitted a PA of the ARDR site to EPA Region 10 (IDEQ 1991a). The PA reviewed the site history and evaluated the site based on its potential to release hazardous contaminants to the environment and the subsequent exposure of area residents to those potential hazardous contaminants. Based on the insufficient information available to characterize the site, a sampling SI was recommended. The results of this SI sampling are presented and discussed in Section 5.

3.0 POTENTIAL TARGETS

3.1 Groundwater Pathway

Soils in the Avery area consist of the Pywell Series (organic soil, very poorly drained) in the river bottoms and the Vay Series (erodible volcanic ash surface soil) on the mountain slopes (IDEQ 1991a). The ARDR surface site soil may not fall into either of these categories because it is composed mainly of fill materials.

The underlying water-bearing rock formations in the Avery area consist of Belt Formation Shales. The well log from the on-site Potlatch well (located approximately 300 yards west of the site entrance) indicates the top 18 feet of soil are composed of fill material (Table 3-1). The information in this well log is not consistent with other well logs from the nearby area; available well logs are provided in Appendix B.

Table 3-1
Potlatch Well Log

Depth below grade surface	Material	Depth to Water
0-18 feet	Fill	Depth to first water in this layer
18-30 feet	Cemented gravel	Static water level = 20 feet
30-31 feet	Soft area	Water encountered
31-57 feet	Brown shale	
57-58 feet	Fractured area	Water encountered
58-60 feet	Brown shale	
60-61 feet	Fractured area	Water encountered
61-64 feet	Brown shale	
64-67 feet	Fractured areas	Water encountered

Source: IDEQ 1991a

The geologic information provided in other area well logs indicates a groundwater depth of 24 feet. Of the well logs reviewed, only the Potlatch well indicated a series of layers of confining shale. Other wells in the area indicated only two or three layers of distinctive materials. Of these layers, a surface layer of shale was shown to have some confining effect on the water-bearing zone. The well driller's report for the Packer well, which appears to be representative of the area, is depicted in Table 3-2.

Table 3-2
Packer Well Log

Depth below grade surface	Material	Water
0-16 feet	Clay and shale	Static water level = 10 feet
16-24 feet	Shale	
24-175 feet	Shale	Depth to first water = 24 feet

Source: IDEQ 1991a

The information in available well logs indicates that the Avery area draws its water from a water-bearing unit that is overlaid by a 24-foot confining layer. This is based on the static water level information provided in the well logs. The ARDR site well log presents a perched water layer above the confining layer described in other well logs. This perched water may be a result of the 18 feet of fill that comprises the site. There is no evidence that the perched layer under the ARDR site is hydrologically isolated from the water-bearing zone indicated in the residential well logs.

Area drinking water wells within a 4-mile radius of the ARDR site are summarized in Table 3-3 and shown in Figure 2-1. There is no known use of local groundwater for irrigation or commercial purposes. The populations assigned to the wells in Table 3-3 were estimated by IDEQ based on conversations with the well owner (IDEQ 1991a). Within 0.25 mile of the ARDR site are two residential drinking water wells (Potlatch and Log Cabin). The Potlatch well provides water to an estimated maximum seasonal population of 20 people. The Log Cabin well provides water to one residence and the restaurant, bar, and motel, as well as eight trailers (available for seasonal use). From 0.25 to 0.5 mile from the site, the Avery school well provides water to 21 residents and 29 children and school personnel. At a distance of 0.5 to 1 mile from the site, the Avery Sewer and Water Department well provides water to the residential population on the

Table 3-3
Drinking Water Populations

Distance from site	Number of wells	Name of Well	Estimated population (range includes seasonal high)
0 - 1/4 mile	2	Potlatch and Log Cabin	8 - 48
1/4 - 1/2 mile	1	Avery School	21 - 50
1/2 - 1 mile	1	Avery Sewer and Water	65 - 75
1 - 2 miles	2	USFS and Packer	4 - 12
2 - 3 miles	0	none	
3 - 4 miles	0	none	
Total	6		98 -185

Source: IDEQ 1991a

north side of the river, estimated to range from 65 to 75 people. From 1 to 2 miles from the ARDR site, the USFS well provides water to a seasonal crew of 10 and the Packer well provides water to one residence.

Direction and rate of groundwater flow at this site have not been established. The groundwater flow in this valley may generally be toward the west following the land contours, whereas local and surface patterns may flow toward the St. Joe River.

The average annual precipitation for the Avery area is 36.65 inches; the 2-year, 24-hour rainfall is 1.8 inches. The average annual net precipitation was calculated to be 22.83 inches (Appendix C). The greatest amount of precipitation falls during the winter months.

The results of the groundwater sampling conducted during this SI are discussed in Section 5.

3.2 Surface Water Pathway

The ARDR site lies along 2,800 feet of the north bank of the St. Joe River. The St. Joe River is the only water body 15 miles downstream of the site. The monthly flow averages for the St. Joe River, measured at Calder (30 miles downstream), vary from a low of 500 cubic feet per second (cfs) to a high of 8,560 cfs. The average annual flow for the St. Joe River is 2,408 cfs (IDEQ 1991a).

No obvious overland surface water migration pathways across the site to the river were observed (URS 1992a). Culvert B (Figure 2-2) appeared to pond on site along the south side of the St. Joe River Road (URS 1992a). The site slopes at an approximate 3 percent grade toward the river. Several of the railroad buildings remain on the property, including what is assumed to be the pumphouse used by the railroad to draw water from the river. Former railroad operations on the site may have released hazardous materials to the river. There was no visual evidence that engineered systems (impervious flooring and containment walls under and around tanks for spill collection) for the containment of hazardous material spills were present at the site, which would have reduced the potential for release to the river (URS 1992a).

Former on-site operations have contributed to the presence of oily seeps occurring along the central 1,000 feet of the site riverbank. The largest seep is located just west of the former railroad pumphouse and was observed to cover an area of approximately 30 square feet of river bank (URS 1992a). This seep of oily material was observed entering the river from the site during low flow seasons (IDEQ 1991a, URS 1992a). The location of this seep is under water during high flow seasons, but the release of the oily substance is assumed to occur during the entire year (URS 1992a). A floating layer of oily material was observed on the perched water table at this site (Hart-Crowser 1989a, IDEQ 1991a, URS 1992a). The perched groundwater on site may be providing a conduit for transport of the oily material to the river.

The St. Joe River is not known to be used as a source of drinking or irrigation water within 15 miles downstream of the ARDR site. The river is used for sport fishing and is classified by the State of Idaho as a "Special Resource Water." The State of Idaho designated "Special Resource Waters" in 1980 based on the classification of a water in any of six categories: outstanding high quality, unique ecological system, outstanding recreational or aesthetic quality, need for intensive protection of the water, presence of water in a national or state park, wildlife refuge or a portion of the national wild and scenic river system, and need for maintaining an existing or beneficial use (Shumar

Based on a 1990 fish count of the St. Joe River, the average fish production is estimated to be 710 lb/mile (IDEQ 1991a). National Wetland Inventory maps are not yet available for this area of Idaho and no wetlands have been delineated 15 miles downstream of the ARDR site (Allen 1992). Floodplain evaluations have not been conducted in this area of Shoshone County (IDEQ 1991a). Historical reports have indicated that the highest river level recorded did not flood this site (IDEQ 1991a). The site lies approximately 15 feet above the river bottom (URS 1992a).

River sediment sampling results for this SI are discussed in Section 5.

3.3 Soil Exposure Pathway

This site is seasonally used for temporary housing for as many as 20 people (IDEQ 1991a). There is one on-site residence that is occupied by one person. This residence is located on the western third of the property approximately 600 feet west of the site entrance. There are no schools or daycares within 200 feet of the site. There are no known sensitive environments located within a 4-mile radius of the site. Access to this site is not restricted; there is no fence around the property. Observations during field sampling documented access to the site by area wildlife (mule deer) and residents (URS 1992a). The maximum residential population within a 4-mile radius of the ARDR site is estimated in Table 3-4.

Results from the soil sampling conducted during this SI are discussed in Section 5.

3.4 Air Pathway

Discolored soils and stains were observed along the riverbank and at several locations on the site. Photographic documentation of the discolored soils are provided in Appendix D. The observed discolored soils provide the potential for release of hazardous contaminants from the site into the air. No containment was observed at this site to reduce the potential for release of contaminants (URS 1992a).

No wetlands or sensitive environments have been identified within a 4-mile radius of the site. The number of residents within 4 miles of this site are tabulated in Table 3-4. Air sampling was not conducted during this SI.

Table 3-4
Residential Population

Distance from Site	Population
On site	20*
0 - 1/8 mile	10
1/8 - 1/4 mile	18
1/4 - 1/2 mile	50
1/2 - 1 mile	75
1 - 2 miles	12
2 - 3 miles	0
3 - 4 miles	0
Total	185

*Estimated number of maximum seasonal residents

Source: IDEQ 1991a

4.0 SAMPLING PROGRAM

4.1 Sampling Objectives

The sampling conducted for this SI was intended to gather sufficient data to enable evaluation of the site's potential for inclusion on the NPL. Site-specific sampling objectives for the ARDR SI included identifying the presence or absence of detectable CERCLA contaminants in area drinking water wells, river sediments, groundwater at the site, site oily seep, site surface soils, and site subsurface soils (URS 1992b).

4.2 Sampling Methods

The media-specific sampling procedures conducted during the sampling of the ARDR site are consistent with methodologies described in the URS Quality Assurance Program Plan (QAPP) (URS 1990a) and Technical Standard Operating Procedures (TSOP) (URS 1990b) for ARCS contract activity, as well as those described in the EPA Compendium of Superfund Field Operations Methods (EPA 1987). Table 4-1 contains a detailed list of the samples collected during the sampling at the ARDR site. The sampling methods are described in the following sections. The residential well and river sediment sample locations are shown in Figure 4-1. The on-site soil and oily seep sample locations are shown in Figure 4-2.

4.2.1 Residential Groundwater Samples (TSOP 5.1)

The well sample collected from the Avery Sewer and Water well was collected as a background water sample to characterize the area groundwater. Residential groundwater sampling at the Avery elementary school well (WSW01 and WSW02) was conducted to evaluate the potential for a health concern in the Avery area. These wells do not chlorinate the water supply. This groundwater sampling was intended only as a screening of wells near the site.

These sampling locations are shown in Figure 4-1.

Table 4-1
Summary of Sample Types, Numbers, and Location

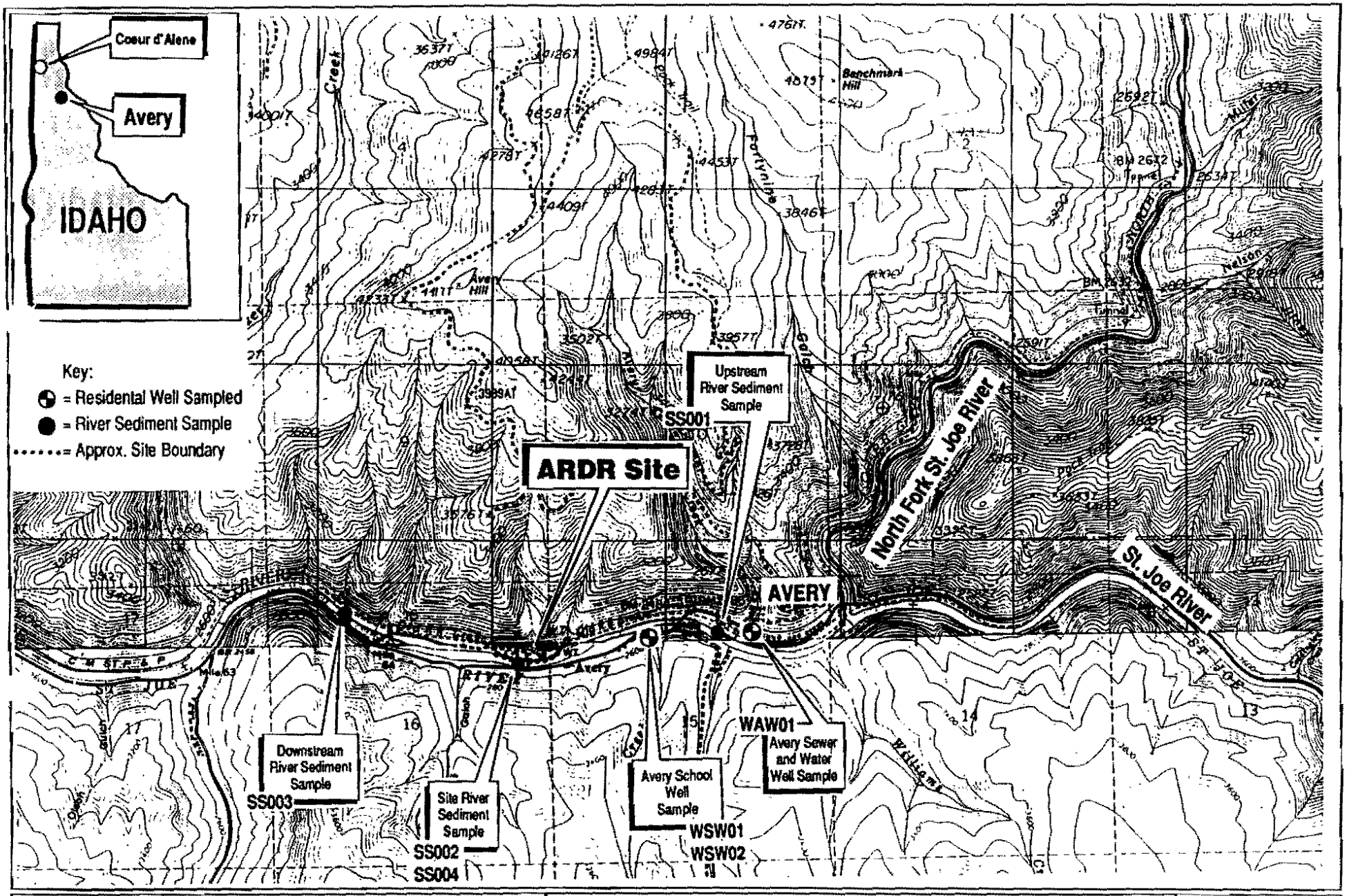
Sample Number	Sample Type	Location	Objective	Date	Time
WSW01	Groundwater	Avery elementary school well	Identify the presence of contaminants in the school water	08/26/92	0837
WSW02	Groundwater	Duplicate of WSW01	Test reliability of sampling procedures	08/26/92	0837
WAW01	Groundwater	Avery Sewer and Water well	Provide background comparison	08/26/92	0915
WHC01	Groundwater	On-site monitoring well HC-3	Identify the presence of contaminants in the groundwater below the site	08/26/92	1020
WTB01	Water	VOA trip blank collected from available de-ionized water	Identify the possible contamination of sample containers while in transit to the laboratory	08/26/92	0820
SS001	Sediment	Upstream river sediment collected approximately 1/2 mile upstream of the eastern end of the site	Provide a background comparison for the constituents in the river sediments	08/25/92	1230
SS002	Sediment	River sediment collected along the center of the site just downstream of the visible oil seep	Identify the contaminants in the river sediments	08/	1100
SS003	Sediment	Downstream river sediment collected approximately 1/4 mile downstream of the oil seep	Identify the presence of contaminants downstream of the site	08/25/92	1025

Table 4-1 (Continued)
Summary of Sample Types, Numbers, and Location

Sample Number	Sample Type	Location	Objective	Date	Time
SS004	Sediment	Duplicate of the site river sediment (SSD02)	Test reliability of sampling procedures	08/25/92	1130
ORS01	Oily Sediment	Oil seep material sampled from the site riverbank	Provide information on the type of contaminants present in the oil seep	08/25/92	1200
ORS02	Oily Sediment	Duplicate of the oily seep (ORS01)	Test reliability of sampling procedure	08/25/92	1200
SS01-1	Soil	Soil sample (0-6") collected from the easternmost end of the site	Provide information on the type of contaminants present in the site fill material	08/26/92	1100
SS01-2	Soil	Soil sample (6-12") collected from the easternmost end of the site	Provide information on the type of contaminants present in the site fill material	08/26/92	1110
SS02-1	Soil	Soil sample (0-6") collected from the ground near the reported location of the 500,000-gallon fuel tank	Provide information on the type of contaminants present	08/26/92	1135
SS02-2	Soil	Soil sample (6-12") collected from the ground near the reported location of the 500,000-gallon fuel tank	Provide information on the type of contaminants present	08/26/92	1135
SS03-1	Soil	Soil sample (0-6") collected from the ground near a pile of railroad ties	Provide information on the type of contaminants present	08/26/92	1145
SS03-2	Soil	Soil sample (6-12') collected from the ground near a pile of railroad ties	Provide information on the type of containments present	08/26/92	1145

Table 4-1 (Continued)
Summary of Sample Types, Numbers, and Location

Sample Number	Sample Type	Location	Objective	Date	Time
SS04-1	Soil	Soil sample (0-6") collected from the current site road surface	Provide information on the type of contaminants present	08/26/92	1200
SS04-2	Soil	Soil sample (6-12") collected from the current site road subsurface	Provide information on the type of contaminants present	08/26/92	1200
SS05-1	Soil	Soil sample (0-6") collected from the ground near the location of former railroad buildings	Provide infomation on the type of contaminants present	08/26/92	1210
SS05-2	Soil	Soil sample (6-12") collected from the ground near the location of former railroad buildings	Provide information on the type of contaminants present	08/26/92	1210
SS06-1	Soil	Soil sample (0-6") collected from the oily seep along the riverbank	Provide information on the type of contaminants present	08/26/92	1230
SS06-2	Soil	Soil sample (6-12") collected from the oily seep along the riverbank	Provide information on the type of contaminants present	08/26/92	1230
SS07-1	Soil	Duplicate of SS05-1	Test reliability of sampling procedures	08/26/92	1210
SS07-2	Soil	Duplicate of SS05-2	Test reliability of sampling procedures	08/26/92	1210



URS CONSULTANTS

NORTH

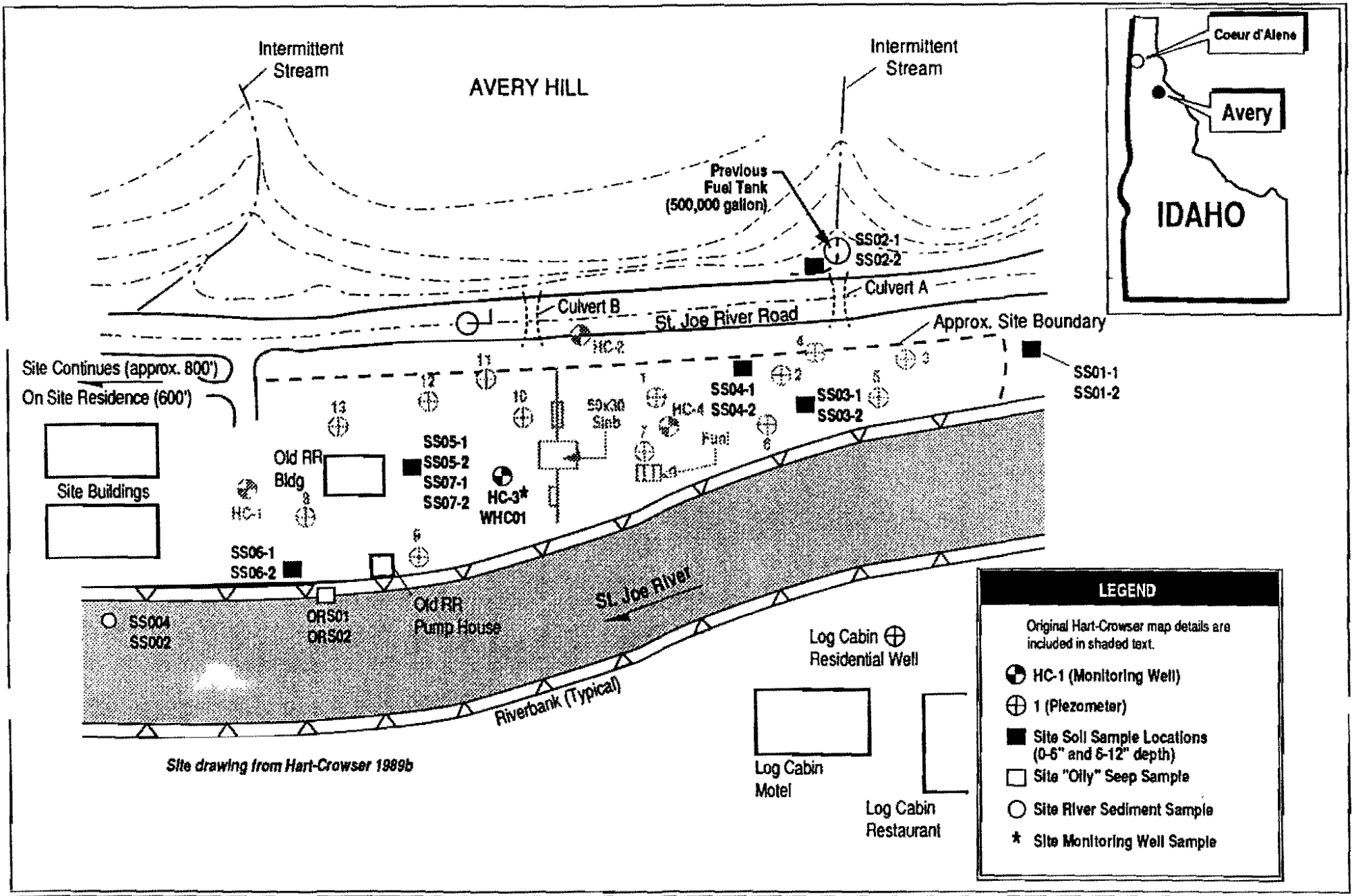
0 1/2 1

Scale In Miles

Source: U.S.G.S. Topographic Quads

Figure 4-1
Sample Location Map

Avery Railroad Dump and Roundhouse
Avery, Idaho



Site drawing from Hart-Crowser 1989b

URS CONSULTANTS

NORTH

0 75 150

Scale In Feet

Figure 4-2
On-Site Sample Location Map

Avery Railroad Dump and Roundhouse Avery, Idaho

4.2.2 Site Monitoring Well Groundwater Samples (TSOP 5.1 and 3.6)

One on-site monitoring well water sample (WHC01) was collected from on-site well HC-3 (Figure 4-2) to characterize the groundwater below the "oily" layer floating on the perched groundwater at the site, as described in the Field Sampling Plan (URS 1992b). The well was not purged and a sample was not collected of the oily layer on the groundwater. The thickness of the oily layer was not measured. Previous sampling at this site measured a 4-foot layer of oily substance in the on-site monitoring wells (Hart-Crowser 1989a).

4.2.3 River Sediment Samples (TSOP 5.5)

River sediment samples were collected to identify the presence of contaminants in the streambed. Three locations along the St. Joe River were sampled: downstream (SS003), along the site (SS002 and SS004), and upstream (SS001) (Figures 4-1 and 4-2). These samples were collected from areas of sediment accumulation, the inside of stream meanders, and in quiet shallow areas, or low-velocity zones. The upstream river sediment sample was collected to identify background conditions. The site river sediment sample was collected just downstream of the observed oily seep (approximately 20 feet).

4.2.4 Site Soil Samples (TSOP 5.4)

As detailed in the Field Sampling Plan, on-site soil samples were collected from six locations, at two depths: zero to 6 inches and 6 to 12 inches (Figure 4-2) (URS 1992b). Sampling locations were selected based on information from the PA Report; the site plat map (Appendix A), which identifies approximate areas of former railroad operations; and from the initial site visit, which documents areas of visible staining. One soil sampling location was designated to be the on-site background soil sample (surface SS01-1, subsurface SS01-2). This sample was collected from a location on the easternmost end of the site along the river bank. This sample was intended to provide a representation of the type of contaminants that are present in the site fill materials.

Surface soil sample SS-01 and subsurface soil sample SS-02 were intended to be used as background. Reported data for these samples contain high concentrations of semivolatile compounds and the subsurface background soil sample reported a PCB concentration of 230 ppb. These data indicate that the soil samples intended as background during the planning phase of this investigation have been influenced by

activities at this site. ,Therefore, these samples are not appropriate for use as background. As an alternative, the least contaminated on-site soil samples, SS02-1 and SS02-2, were designated as background for site soils. These soil samples were collected from the area where the railroad fuel tank was formerly located. The results from these site soil samples were compared to the remaining on-site surface and subsurface soil samples to define the significant concentrations of particular substances. The remainder of this document will refer to SS02-1 and SS02-2 as background; SS01-1 and SS01-2 will be referred to as eastern site soil samples.

The remaining on-site soil samples were taken of discolored soils near a stack of creosote railroad ties (surface SS03-1, subsurface SS03-2); from current site roadway soil (surface SS04-1, subsurface SS04-1); next to former railroad buildings (surface SS05-1 and SS07-1, subsurface SS05-2 and SS07-2); and along the top of the riverbank (surface SS06-1, subsurface SS06-2).

4.2.5 Site Seep Samples

Two samples were collected of the oily seep (ORS01 and ORS02) that was observed leaching from the site into the river (IDEQ 1991a). The approximate location of this seep is identified in Figure 4-2.

4.3 Sample Analytical and Handling Requirements

Sample analytical requirements for the ARDR SI are summarized in Table 4-2. Included are descriptions of requested analytes, the analytical programs used, sample preservation techniques, and maximum sample holding times. Analytical methods and bottle requirements for samples collected during this investigation are described in the EPA's Users Guide to the Contract Laboratory Program (EPA 1988b). All samples were analyzed for the specified compounds and analytes detailed in the Field Sampling Plan (URS 1992b).

Analytical quality control analyses included matrix spike analyses, surrogate analyses, duplicate analyses, and method blank analyses. A summary of precision, accuracy, and completeness for this field sampling program is presented in Appendix E. All samples intended for analysis through the EPA Region 10 Laboratories were handled and documented in accordance with procedures specified in EPA's Users Guide to the Contract Laboratory Program (EPA 1988b) and National Enforcement Investigations

Table 4-2
Sample Analytical Requirements

Sample Matrix	Number of Samples Collected	Sample Location	Analytical Requirements	Analytical Program	Preservation Technique	Maximum Holding Times
Groundwater	2	See Figures 4-1 and 4-2	VOCs BNAs Pesticide/PCBs Total Metals	EPA Manchester EPA Manchester EPA Manchester EPA Manchester	HCl, Ice Ice Ice HNO_3, Ice	14 days 7 days 7 days 6 months/28 days for mercury
	1	Background	VOCs BNAs Pesticide/PCBs Total Metals	EPA Manchester EPA Manchester EPA Manchester EPA Manchester	HCl, Ice Ice Ice HNO_3, Ice	14 days 7 days 7 days 6 months/28 days for mercury
	2	Quality Control (Trip blank and 1 duplicate)	VOCs BNAs Pesticide/PCBs Total Metals	EPA Manchester EPA Manchester EPA Manchester EPA Manchester	HCl, Ice Ice Ice HNO_3, Ice	14 days 7 days 7 days 6 months/28 days for mercury
Soil/Sediment	13	See Figures 4-1 and 4-2	VOCs BNAs Pesticide/PCBs Total Metals	EPA Manchester EPA Manchester EPA Manchester EPA Manchester	Ice Ice Ice Ice	14 days 7 days 7 days 6 months/28 days for mercury
	3	Background for surface soil, subsurface soil, and river sediments	VOCs BNAs Pesticide/PCBs Total Metals	EPA Manchester EPA Manchester EPA Manchester EPA Manchester	Ice Ice Ice Ice	14 days 7 days 7 days 6 months/28 days for mercury
	4	Quality Control (4 duplicates)	VOCs BNAs Pesticide/PCBs Total Metals	EPA Manchester EPA Manchester EPA Manchester EPA Manchester	Ice Ice Ice Ice	14 days 7 days 7 days 6 months/28 days for mercury

Source: URS 1992b

Center Policies and Procedures (EPA 1985). Specific chain-of-c :ody procedures were followed in accordance with EPA Region 10 requirements. Samp.e packaging conformed with applicable Department of Transportation Regulations (49 CFR 171-177) and International Air Transport Association guidelines (IATA 1987). All samples were shipped via an overnight delivery service to the laboratory for analysis within 48 hours of collection.

Samples collected from the site oily seep were anticipated to require dilution in order to identify the lower limit concentrations of contaminants. It was important for this project to identify the presence of higher concentration contaminants at levels that were not estimates due to high dilution. Therefore, the samples were requested to be analyzed to accurately identify the higher concentration contaminants. Laboratory Special Analytical Services protocol for the oily sample was included in the sampling plan (URS 1992b).

5.0 SAMPLE RESULTS AND DISCUSSION

All samples collected during this investigation were analyzed for volatile organic, semivolatile organic, pesticide and polychlorinated biphenyl (PCB) compounds, and total metal analytes as specified in the Field Sampling Plan for the Avery Railroad Dump and Roundhouse (URS 1992b).

A summary of the data quality objectives for this site is presented in Appendix E. The laboratory data reports and corresponding data validation reports are provided in Appendix F. Photographic documentation of the site visit and field sampling at the ARDR site is provided in Appendix G.

During the data evaluation process, the conditions used to define an "observed release" of a particular substance to any of the matrices sampled are summarized in Table 5-1. The discussions of site data in Sections 5-2 through 5-5 use the term "significant" based on the criteria described in Table 5-1.

Based on EPA Region 10 policy, aluminum, calcium, iron, magnesium, potassium, sodium, and zinc (common earth crust elements) are generally used only in water mass tracing, which is beyond the scope of this report. Although these elements are included in the tables, the data are not evaluated against the criteria in Table 5-1.

5.1 GROUNDWATER

Groundwater results are provided in Table 5-2.

Residential groundwater sample WAW01 is designated as background and was collected approximately 0.75 mile east of the ARDR site. The background designation was due to its location upgradient of the suspected direction of regional groundwater flow. This sample (WAW01) was used for comparison to the school well (WSW01 and WSW02) and the on-site monitoring well (WHC01).

The use of a drinking water supply well (WAW01) for comparison to the on-site monitoring well (WHC01) is not technically appropriate. The drinking water well is constructed differently, draws water from a lower aquifer, and is regularly pumped. The

Table 5-1
Significance Criteria for Chemical Analysis

Sample Measurement < Sample Quantitation Limit[a]
No observed release is established; the result is not identified as "significant."
Sample Measurement > Sample Quantitation Limit[a]
An observed release or "significant" result is established as follows:
If the background concentration is not detected (or is less than the detection limit), an observed release or significant result is established when the sample measurement equals or exceeds the sample quantitation limit[a].
If the background concentration equals or exceeds the detection limit, an observed release or significant result is established when the sample measurement is three times or more above the background concentration.

[a]If the SQL cannot be established, determine if there is an observed release as follows:

- If the sample analysis was performed under the EPA CLP, use EPA CRQL in place of the SQL.
- If the sample analysis is not performed under the EPA CLP, use the detection limit in place of the SQL.

Source: 40 CFR, Part 300, Hazard Ranking System Final Rule, 1990

Table 5-2
Water Sample Results, Avery, Idaho
August 26, 1992

Substance Detected (µg/L)	Avery Sewer and Water Well - Off-Site Background		Avery Elementary School Well - Off Site		Avery Elementary School Well - Off Site (duplicate)		On-Site Montoring Well (HC-3)		Safe Drinking Water Act Standard	
	WAW01	Qualifier	WSW01	Qualifier	WSW02	Qualifier	WHC01	Qualifier	MCL	Footnote
Volatile Organics										
Benzene	1	U	1	U	1	U	**20**		5	F
Naphthalene	1	U	1	U	1	U	**87**			NS
Semivolatile Organics										
Acenaphthene	2	U	2	U	2	U	**54**			NS
Phenanthrene	2	U	2	U	2	U	**230**			NS
Fluorene	2	U	2	U	2	U	**150**			NS
Naphthalene, 1-Methyl-	2	U	2	U	2	U	**840**			NS
2-Methylnaphthalene	2	U	2	U	2	U	**630**			NS
Pyrene	2	U	2	U	2	U	19	J		NS
Fluoranthene	2	U	2	U	2	U	15	J		NS
Metals										
Calcium	30,200		37,600		37,600		63,500			NS
Magnesium	6,370		7,700		7,720		30,200			NS
Sodium	4,700		4,220		4,180		14,800			NS
Potassium	1,800	U	2,200	U	2,210	U	8,460			NS

Table 5-2 (Continued)
Water Sample Results, Avery, Idaho
August 26, 1992

Substance Detected (µg/L)	Avery Sewer and Water Well - Off-Site Background		Avery Elementary School Well - Off Site		Avery Elementary School Well - Off Site (duplicate)		On-Site Montoring Well (HC-3)		Safe Drinking Water Act Standard	
	WAW01	Qualifier	WSW01	Qualifier	WSW02	Qualifier	WHC01	Qualifier	MCL	Footnote
Arsenic	1.7	J	4.7	J	4.7	J	**102**	J	50	*
Barium	12.7		10.7		10.9		**272**		2,000	F
Beryllium	1.0	U	1.0	U	1.0	U	2.2	J	4	#
Cadmium	2.0	U	2.0	U	2.0	U	3	J	5	F
Chromium	5.1	U	5.0	U	5.0	U	**29.2**		100	F
Cobalt	3.1	U	3.0	U	3.0	U	**49.1**			NS
Copper	5.5	J	4	J	3.0	U	**171**		1,300	AL
Lead	1.2	J	1.2	J	1.4	J	**54.4**		15	AL
Manganese	1.7	J	1.0	U	1.0	U	**4,020**			NS
Nickel	1.0	U	1.0	U	10	U	**69**	J	100	F
Silver	3.1	U	3.0	U	3.0	U	**13.6**			NS
Vanadium	2.0	U	2.0	U	2.0	U	**66.7**			LR
Zinc	7.2	UJ	82.9		85.7		717			LR
Aluminum	61	UJ	65	UJ	67	UJ	27,600			LR
Iron	12	J	13	J	13	J	74,200			NS

Table 5-2 (Continued)
Water Sample Results, Avery, Idaho
August 26, 1992

Substance Detected (µg/L)	Avery Sewer and Water Well - Off-Site Background		Avery Elementary School Well - Off Site		Avery Elementary School Well - Off Site (duplicate)		On-Site Montoring Well (HC-3)		Safe Drinking Water Act Standard	
	WAW01	Qualifier	WSW01	Qualifier	WSW02	Qualifier	WHC01	Qualifier	MCL	Footnote
Pesticides/PCB										
None detected										

Qualifiers:
J - The value is an estimate
U - Analyte or compound was not detected at or above the shown value
UJ - Analyte or compound was not detected at or above the shown value; the shown value is an estimate of the sample quantitation limit for this analyte or compound

Notes:
MCL - Maximum contaminant level
Highlighted data represent significantly elevated concentration (Table 5-1 criteria)

Footnotes:
* - Under review
# - Beryllium MCL effective January 1994
AL - Action level
F - Final
LR - Listed for regulation
NS - No standard under this regulation

monitoring well on the ARDR site (WCH01) is not constructed as a drinking water well, is developed in the shallow aquifer, and usually remains stagnant. A more appropriate comparison for the on-site monitoring well would be another monitoring well in the shallow aquifer located upgradient of the ARDR site. No other monitoring wells were available in the Avery area.

Additionally, the Safe Drinking Water Act maximum contaminant limit (MCL), provided in the last column of Table 5-2, is not applicable to the monitoring well sample (WHC01). MCLs are for comparison to drinking water wells only.

5.1.1 Volatile Organics

As indicated in Table 5-2, no volatile organic compounds (VOCs) were detected in the background well sample (WAW01). The VOC water sample results for WAW01 were not estimated.

No VOCs were reported in the Avery school well samples WSW01 and WSW02. Two VOCs were detected in the sample collected from the on-site monitoring well (WHC01). These data were reported at concentrations determined to be significant. These VOCs were benzene at 20 μg/L and naphthalene at 87 μg/L. These results were not estimated.

5.1.2 Semivolatile Organics

No semivolatile organic compounds were detected in the background well sample (WAW01). None of these values were estimated.

No semivolatile organic compounds were reported in the Avery school well samples (WSW01 and WSW02). Seven semivolatile organic compounds were reported in the on-site monitoring well sample (WHC01). Five of these compounds qualify as significant concentrations: acenaphthene at 54 μg/L, phenanthrene at 230 μg/L, fluorene at 150 μg/L, 1-methyl naphthalene at 840 μg/L, and 2-methyl naphthalene at 630 μg/L. These are polycyclic aromatic hydrocarbons (PAHs), which are derivatives of coal, oil, and gasoline. Two other semivolatile compounds were reported at qualified concentrations in sample WHC01 but not at significant concentrations. The basis for the qualification of the two nonsignificant semivolatile compounds is unknown.

5.1.3 Total Metals

Background levels for total metals are provided by sample WAW01. Reported concentrations of arsenic, copper, lead, manganese, and iron in sample WAW01 are estimated (unknown bias).

No analytes were reported at significant concentrations in the Avery school well samples (WSW01 and WSW02). Nineteen analytes were detected in on-site sample WHC01. Four of those 19 analytes, arsenic, cadmium, chromium, and nickel, were reported at estimated (unknown bias) concentrations. Of those 19 analytes, 10 are at significant concentrations: arsenic at 102 μg/L, barium at 272 μg/L, chromium at 29.2 μg/L, cobalt at 49.1 μg/L, copper at 171 μg/L, lead at 54.4 μg/L, manganese at 4,020 μg/L, nickel at 69 μg/L, silver at 13.6 μg/L, and vanadium at 66.7 μg/L.

5.1.4 Pesticides/PCBs

No pesticide or PCB compounds were reported at detected concentrations in collected water samples.

5.2 SEDIMENT

Sediment sample results are provided in Table 5-3.

The upstream river sediment sample (SS001) is designated as background and was collected approximately 0.7 mile east of the ARDR site. This background sample was compared to other sediment samples, including the oily seep sediment samples (ORS01 and ORS02), to define significant concentrations.

5.2.1 Volatile Organics

No VOCs were reported in the background river sediment sample (SS001). The reported results for acetone and p-isopropyltoluene were estimated (unknown bias).

All reported concentrations of VOCs in sediment samples (other than background) were estimated (unknown bias). Seven VOCs were detected in the sediment samples collected at the ARDR site. None of these seven VOCs were reported at concentrations that are significant.

Table 5-3
Sediment Sample Results, Avery, Idaho
August 25, 1992

Substance Detected	Upstream River Sediment - Background		Along Site River Sediment		Downstream River Sediment		Along Site River Sediment Duplicate		Oily Seep Sediment		Oily Seep Sediment Duplicate	
	SS001	Qualifier	SS002	Qualifier	SS003	Qualifier	SS004	Qualifier	ORS01	Qualifier	ORS02	Qualifier
Volatile Organics (µg/kg)												
Acetone	10	UJ	38	U	11	UJ	110	J	330	U	600	U
Methylene chloride	12	U	11	U	11	U	12	U	110	U	17	J
2-Butanone	3	U	7	U	11	U	8	J	560	U	600	U
p-Isopropyltoluene	2	UJ	7	J	2	U	2	UJ	110	U	120	U
Toluene	2	U	0.2	J	2	U	2	U	110	U	120	U
Chlorobenzene	2	U	2	U	2	U	0.6	J	110	U	120	U
Total xylenes	2	U	2	UJ	2	U	2	UJ	7	J	4	J
Semivolatile Organics (µg/kg)												
Benzo(a)pyrene	13	J	630	U	130	U	1,000	U	**1,700**	J	**700**	J
Benzo(a)anthracene	31	J	630	U	17	J	80	J	**3,400**	J	**5,500**	J
Isophorone	27	J	110	J	7	J	1,000	U	5,400	U	5,300	U
Acenaphthene	140	U	630	U	130	U	1,000	U	**13,000**	J	**4,000**	J
Di-n-butylphthalate	230	U	630	U	130	U	1,000	U	590	J	5,300	UJ
Phenanthrene	49	J	180	J	9	J	310	J	**14,000**	J	5,300	UJ
Butylbenzylphthalate	140	U	1,600	U	130	U	2,600	U	14,000	UJ	**520**	J
N-Nitrosodiphenylamine	24	J	86	J	1,600	UJ	**2,900**	J	71,000	UJ	70,000	UJ
Fluorene	140	U	630	U	130	U	1,000	U	**22,000**	J	5,300	U
Carbazole	68	J	29	J	640	UJ	5,200	UJ	28,000	UJ	28,000	UJ
Naphthalene, 1-Methyl-	4	J	84	J	130	U	1,000	U	**10,000**	J	**8,400**	
2-Methylnaphthalene	6	J	63	J	130	U	89	J	**2,700**	J	**2,700**	J

Table 5-3 (Continued)
Sediment Sample Results, Avery, Idaho
August 25, 1992

Substance Detected	Upstream River Sediment - Background		Along Site River Sediment		Downstream River Sediment		Along Site River Sediment Duplicate		Oily Seep Sediment		Oily Seep Sediment Duplicate	
	SS001	Qualifier	SS002	Qualifier	SS003	Qualifier	SS004	Qualifier	ORS01	Qualifier	ORS02	Qualifier
Benzyl alcohol	710	U	**1,500**	J	640	U	5,200	UJ	28,000	UJ	28,000	UJ
bis(2-Ethylhexyl) phthalate	8,600	J	950	U	980	U	20,000		1,300	J	5,300	U
Di-n-octyl phthalate	140	U	630	U	130	U	1,000	U	5,400	U	**420**	J
Anthracene	140	U	180	J	130	U	1,000	U	5,400	U	5,300	UJ
Pyrene	64	J	280	J	8	J	630	J	**15,000**	J	**10,000**	J
Benzo(g,h,i)perylene	140	U	630	U	130	U	1,000	U	5,400	UJ	**1,200**	J
Benzo(b)fluoranthene	16	J	630	U	130	U	1,000	U	**4,100**	J	**2,200**	J
Fluoranthene	23	J	630	U	6	J	190	J	**6,000**	J	5,300	UJ
Chrysene	85	J	630	U	12	J	610	J	**6,200**		**4,900**	J
Retene	140	U	240	J	130	U	1,000	U	**13,000**	J	5,300	U
Total Metals (mg/kg)												
Selenium	0.20	U	0.20	U	0.20	U	0.20	U	0.2	U	0.21	J
Mercury	0.02	UJ	0.02	UJ	0.02	UJ	0.023	J	0.2	UJ	0.046	J
Calcium	1,160		1,340		1,470		1,800		1,200	J	1,300	
Magnesium	45.3		4,150		3,590		4,010		2,870		3,130	
Potassium	812		916		849		792		649		816	
Arsenic	23		17.2		11	J	24.1		11	J	11	J
Barium	27.6		33.8	J	31.3		36.7		31.1		30.7	
Beryllium	0.29	J	0.34	J	0.26	J	0.35	J	0.36	J	0.38	J
Cadmium	0.28	J	0.20	U	0.20	U	0.38	J	0.20	U	0.56	J
Chromium	7.22		7.46		6.39		8.62		6.24		6.18	

Table 5-3 (Continued)
Sediment Sample Results, Avery, Idaho
August 25, 1992

Substance Detected	Upstream River Sediment - Background		Along Site River Sediment		Downstream River Sediment		Along Site River Sediment Duplicate		Oily Seep Sediment		Oily Seep Sediment Duplicate	
	SS001	Qualifier	SS002	Qualifier	SS003	Qualifier	SS004	Qualifier	ORS01	Qualifier	ORS02	Qualifier
Cobalt	9.6		5.95		6.08		6.03		4.3		4.11	
Copper	27.5	J	42		17		107		121		82	J
Lead	25.4		36.5		9.2	J	**165**		37.3		20.6	
Manganese	203		167		264		164		112		94.2	
Nickel	12.7		12		8.45		15.2		14.4		15.3	
Silver	3.33	J	3.02	J	2.5	J	3.36	J	1.78		2.13	
Vanadium	14.8		18.4	J	11.5		25.5		23.6		23	
Zinc	47.9		52.1	J	40.2		63.9		47.3	J	87.2	
Aluminum	7,380		6,440		5,840		6,340		4,680		5,520	
Iron	18,800		16,300		13,200		17,900		10,300		12,000	
Pesticides/PCB (µg/kg)												
Aroclor-1260	57	U	**320**		52	U	**260**		**760**		**890**	

Qualifiers:
U - Analyte or compound was not detected at or about the shown value
UJ - Analyte or compound was not detected at or above the shown value; the shown value is an estimate of the sample quantitation limit for this analyte or compound
J - The value is an estimate

Note:
Highlighted data represent significantly elevated concentrations (Table 5-1)

5.2.2 Semivolatile Organics

Thirteen semivolatile organic compounds were reported in the upstream river sediment sample (SS001). The bias of the estimated sample results is unknown.

Twenty-two semivolatile organic compounds were reported in sediment samples collected at the ARDR site. Of these 22 compounds, 17 were reported at significant concentrations. Thirteen of these 17 significant compounds detected in site river sediments are classified as PAHs.

No significant concentrations of semivolatile organic compounds were reported in the downstream sediment sample (SS003). Only one compound, benzyl alcohol, was reported at a significant concentration in the site river sediment sample (1,500 μg/kg in sample SS002). Only n-nitrosodiphenylamine was reported in the site river sediment duplicate sample at a significant concentration (2,900 μg/kg in sample SS003). These data were estimated (unknown bias).

The remaining 15 semivolatile organic compounds detected at significant concentrations were reported in samples collected of the site oily seep sediment. Thirteen of the compounds reported in the oily seep sediment sample were PAHs. The PAH compounds reported in sample ORS01 (reported as nonsignificant or nondetects in sample ORS02) at significant concentrations included phenanthrene at 14,000 μg/kg, fluorene at 22,000 μg/kg, fluoranthene at 6,000 μg/kg, and retene at 13,000 μg/kg. Semivolatile compounds reported in duplicate sample ORS02 (reported as nonsignificant or nondetects in sample ORS01) were butylbenzylphthalate at 520 μg/kg, di-n-octyl phthalate at 420 μg/kg, and benzo(g,h,i)perylene (PAH) at 1,200 μg/kg. The following PAH compounds were reported in both samples ORS01 and ORS02 at significant concentrations, respectively: benzo(a)pyrene at 1,700 μg/kg and 700 μg/kg, benzo(a)anthracene at 3,400 μg/kg and 5,500 μg/kg, acenaphthene at 13,000 μg/kg and 4,000 μg/kg, 1-methyl naphthalene at 10,000 μg/kg and 8,400 μg/kg, 2-methyl naphthalene at 2,700 μg/kg in both samples, pyrene at 15,000 μg/kg and 10,000 μg/kg, benzo(b)fluoranthene at 4,100 μg/kg and 2,200 μg/kg, and chrysene at 6,200 μg/kg and 4,900 μg/kg. All of these sample results were estimated (unknown bias). Calibration discrepancies, indicating low bias, were the basis for qualification of data for butylbenzylphthalate, bis(2-ethylhexyl)phthalate, di-n-octyl phthalate, and benzo(g,h,i)perylene.

5.2.3 Total Metals

Background levels for total metals are provided by sample WAW01. Reported concentrations of arsenic, copper, lead, manganese, and iron in sample WAW01 are estimated (unknown bias).

No analytes were reported at significant concentrations in the Avery school well samples (WSW01 and WSW02). Nineteen analytes were detected in on-site sample WHC01. Four of those 19 analytes, arsenic, cadmium, chromium, and nickel, were reported at estimated (unknown bias) concentrations. Of those 19 analytes, 10 are at significant concentrations: arsenic at 102 μg/L, barium at 272 μg/L, chromium at 29.2 μg/L, cobalt at 49.1 μg/L, copper at 171 μg/L, lead at 54.4 μg/L, manganese at 4,020 μg/L, nickel at 69 μg/L, silver at 13.6 μg/L, and vanadium at 66.7 μg/L.

5.2.4 Pesticide/PCBs

No pesticide compounds were detected in any sediment samples collected at the ARDR site.

The PCB compound Aroclor-1260 was reported as not detected in the upstream (background SS001) and downstream (SS003) sediment samples. The reported nondetect values in these samples were not estimated.

Aroclor-1260 was reported in the site river sediment samples (SS002 and SS004) at concentrations of 320 μg/kg and 260 μg/kg. Aroclor-1260 was also reported in the oily seep sediment samples (ORS01 and ORS02) at concentrations of 760 μg/kg and 890 μg/kg. None of these values were estimated.

5.3 SURFACE SOIL

Surface soil sample (from 0 to 6 inches below the ground surface) results are provided in Table 5-4.

Surface soil sample SS02-1 was designated as background for comparison purposes. This sample was collected of the site fill material and was used to evaluate significant concentrations of site surface soil samples. A site soil sample was used as background to characterize the fill material at the ARDR site, which may not be native to the area.

Table 5-4
Surface Soil Sample Results, Avery, Idaho
August 26, 1992

Substance Detected	Background		East Site Soil		Area Near Creosote Logs - Black Soil		Along Site Graded Road Surface		Along Side of Former RR Buildings		Along Top of River Embankment		Along Side of Former RR Buildings - Duplicate	
	SS02-1	Qualifier	SS01-1	Qualifier	SS03-1	Qualifier	SS04-1	Qualifier	SS05-1	Qualifier	SS06-1	Qualifier	SS07-1	Qualifier
Volatile Organics (µg/kg)														
1,1,1-Trichloroethane	3	UJ	4	U	200	UJ	3	UJ	3	UJ	3	UJ	0.6	J
Carbon disulfide	17	U	18	U	1,000	U	16	U	15	U	15	U	0.1	J
1,1-Dichloroethene	3	U	4	U	200	U	3	U	3	U	3	U	0.4	J
Trichlorofluoromethane	0.5	J	4	U	200	UJ	3	UJ	0.4	J	3	UJ	3	UJ
Methane, Dichlorodifluoro-	23	J	8	J	1,000	U	16	UJ	16	J	0.4	J	76	J
Ethene, Trichloro-	3	U	4	U	200	U	3	U	3	U	3	U	0.1	J
Naphthalene	4		4	UJ	1,200		3	U	3	U	3	UJ	3	U
1,2,4-Trimethylbenzene	1	J	4	UJ	1,300		3	U	3	U	3	UJ	3	U
Ethylbenzene	3	U	4	U	13	J	3	U	3	U	3	U	3	U
1,3,5-Trimethylbenzene	0.7	J	4	UJ	1,800	J	3	UJ	3	U	3	UJ	3	UJ
Toluene	3	U	4	U	15	J	3	U	3	U	3	U	3	U
trans-1,2-Dichloroethene	3	U	4	U	200	U	3	U	3	U	3	U	0.5	J
Benzene, 1-Bromo-4-fluoro-	NAF		NAF		NAF		NAF		87		NAF		NAF	
Total xylenes	0.09	J	4	UJ	400		3	U	NAF		3	UJ	NAF	
Semivolatile Organics (µg/kg)														
Benzo(a)pyrene	480	U	110	J	440	J	680	U	100	U	120	UJ	120	U
Benzo(a)anthracene	100	J	140	J	3,000		680	U	100	U	120	U	120	U
Isophorone	480	U	490	U	830	U	13	J	340	J	83	J	5	J
Acenaphthene	26	J	34	J	2,700	J	680	U	100	U	120	U	120	U

Table 5-4 (Continued)
Surface Soil Sample Results, Avery, Idaho
August 26, 1992

Substance Detected	Background		East Site Soil		Area Near Creosote Logs - Black Soil		Along Site Graded Road Surface		Along Side of Former RR Buildings		Along Top of River Embankment		Along Side of Former RR Buildings - Duplicate	
	SS02-1	Qualifier	SS01-1	Qualifier	SS03-1	Qualifier	SS04-1	Qualifier	SS05-1	Qualifier	SS06-1	Qualifier	SS07-1	Qualifier
Phenanthrene	160	J	510		**14,000**		220	J	120		18	J	65	J
Butylbenzylphthalate	41	J	1,300	U	210	U	1,700	U	260	U	310	U	310	U
N-Nitrosodiphenylamine	6,200	UJ	74	J	11,000	UJ	27	J	1,400	UJ	1,600	UJ	1,500	UJ
Fluorene	480	U	31	J	**3,000**		680	U	100	U	120	U	120	U
Naphthalene, 1-Methyl-	66	J	140	J	**26,000**		150	J	40	J	14	J	17	J
Naphthalene	22	J	170	J	**2,700**	J	93	J	**110**		18	J	45	J
2-Methylnaphthalene	32	J	**160**	J	**15,000**		150	J	48	J	15	J	22	J
bis(2-Chloroethyl) ether	480	U	68	J	830	U	680	U	100	U	120	U	120	U
Anthracene	26	J	93	J	120	J	38	J	13	J	120	U	9	J
Pyrene	240	J	460	J	**7,000**		110	J	25	J	6	J	43	J
Dibenzofuran	480	U	160	J	830	U	62	J	50	J	11	J	21	J
Benzo(g,h,i)perylene	480	U	240	J	830	U	680	U	100	U	120	UJ	66	J
Indeno(1,2,3-cd)pyrene	480	U	160	J	190	J	680	U	100	U	120	UJ	52	J
Benzo(b)fluoranthene	110	J	430	J	1,000	J	680	U	39	J	120	UJ	79	J
Fluoranthene	110	J	430	J	**5,700**	J	120	J	67	J	120	U	45	J
Benzo(k)fluoranthene	480	UJ	130	J	830	U	680	UJ	100	UJ	120	UJ	120	UJ
Acenaphthylene	480	U	16	J	30	J	680	U	100	U	120	U	120	U
Chrysene	160	J	440	J	**3,300**		680	U	40	J	120	U	120	U
Retene	480	U	240	J	830	U	140	J	78	J	120	U	28	J

Table 5-4 (Continued)
Surface Soil Sample Results, Avery, Idaho
August 26, 1992

Substance Detected	Background		East Site Soil		Area Near Creosote Logs - Black Soil		Along Site Graded Road Surface		Along Side of Former RR Buildings		Along Top of River Embankment		Along Side of Former RR Buildings - Duplicate	
	SS02-1	Qualifier	SS01-1	Qualifier	SS03-1	Qualifier	SS04-1	Qualifier	SS05-1	Qualifier	SS06-1	Qualifier	SS07-1	Qualifier
Total Metals (mg/kg)														
Mercury	0.02	UJ	0.065	J	0.02	UJ	0.021	J	0.02	UJ	0.02	UJ	0.02	UJ
Calcium	2,910		4,220		2,520		4,920		2,970		10,800	J	3,060	
Magnesium	12,600		2,720		2,680		4,680		5,890		11,000	J	6,180	
Potassium	2,740		948		601		1,710		2,810		4,800		2,870	
Arsenic	36.4		18.5		9.6	J	21.1		29.7		39.6		44.5	
Barium	76.3		145		68.7		91.9		98.4		83.3		98.6	
Beryllium	0.836		0.46	J	0.28	J	0.42	J	0.56		0.795		0.599	
Cadmium	0.32	J	1.58		0.71	J	1.5	J	0.35	J	0.58	J	0.29	J
Chromium	13.2		16.1		10.6		15.3		10.5		15.7		10.8	
Cobalt	8.92		5.97		4.9		8.22		10.2		9.99		10.2	
Copper	17.8		**180**		**76.6**		**56**		34.4		38.3		31.6	
Lead	394		235		87.5		60.6		29.2		61.6		24.8	
Manganese	653		326		163		322		491		575	J	491	
Nickel	15.1		16.6		15.1		13.8		16		16.3		15.3	
Silver	4.33		5.02	J	2.25	J	3.28		4.4	J	3.39		4.31	
Vanadium	19.8		21.5		18.8		16.2		18.2		17.8	J	18.1	
Zinc	24.6		187		100		196		50		75.4	J	50.3	
Aluminum	14,700		5,500		5,060		7,710		12,700		13,000		12,600	
Iron	22,900		20,200		12,500		17,600		24,000		18,200		23,800	

Table 5-4 (Continued)
Surface Soil Sample Results, Avery, Idaho
August 26, 1992

Substance Detected	Background		East Site Soil		Area Near Creosote Logs - Black Soil		Along Site Graded Road Surface		Along Side of Former RR Buildings		Along Top of River Embankment		Along Side of Former RR Buildings - Duplicate	
	SS02-1	Qualifier	SS01-1	Qualifier	SS03-1	Qualifier	SS04-1	Qualifier	SS05-1	Qualifier	SS06-1	Qualifier	SS07-1	Qualifier
Pesticides/PCB (µg/kg)														
Aroclor-1260	49	U	390		350		410		43	U	50	U	48	U

Qualifiers:
J - The value is an estimate.
U - Analyte or compound was not detected at or about the shown value
UJ - Analyte or compound was not detected at or above the shown value; the shown value is an estimate of the sample quantitation limit for this analyte or compound

Notes:
NAF - Not analyzed for
Highlighted data indicate significantly elevated concentrations

5.3.1 Volatile Organics

Six VOCs were detected in the on-site background sample (SS02-1). The reported concentrations of VOCs in the background sample were estimated (unknown bias) for five compounds.

Fourteen VOCs were reported in the on-site surface soil samples; five of these VOCs were detected at significant concentrations in one on-site sample. Four of these significant levels were reported in the sample collected near the pile of creosote logs (SS03-1): naphthalene at 1,200 μg/kg, 1,2,4-trimethylbenzene at 1,300 μg/kg, 1,3,5-trimethylbenzene at 1,800 μg/kg, and total xylenes at 400 μg/kg. Only the reported concentration for 1,3,5-trimethylbenzene was estimated (unknown bias). The fifth VOC, 1-bromo-4-fluorobenzene, was reported only in sample SS05-1 (87 μg/kg). This compound was not reported in other surface soil samples, including background, collected at this site.

5.3.2 Semivolatile Organics

Twenty-three semivolatile organic compounds were reported in the surface soil samples collected at the ARDR site. Of these compounds, 12 were detected in the background sample (SS02-1). All of these concentrations were estimated (unknown bias).

Of the 23 semivolatile organic compounds reported in the on-site surface soil samples, 10 were detected at significant concentrations. All of these compounds are PAHs and were reported in the sample collected near the pile of creosote logs (SS03-1). The significant compounds detected in sample SS03-1 were benzo(a)anthracene at 3,000 μg/kg, acenaphthene at 2,700 μg/kg, phenanthrene at 14,000 μg/kg, fluorene at 3,000 μg/kg, 1-methylnaphthalene at 26,000 μg/kg, naphthalene at 2,700 μg/kg, 2-methylnaphthalene at 15,000 μg/kg, pyrene at 7,000 μg/kg, fluoranthene at 5,700 μg/kg and chrysene at 3,300 μg/kg. Additionally, naphthalene was reported at the significant concentration of 110 μg/kg in the sample collected near the old railroad buildings (SS05-1) and 2-methylnaphthalene was reported at the significant concentration of 160 μg/kg in the sample collected from the east end of the site (SS01-1). Estimated (unknown bias) on-site samples included acenaphthene in sample SS03-1, naphthalene in sample SS03-1, 2-methylnaphthalene in sample SS01-1, and fluoranthene in sample SS03-1.

5.3.3 Total Metals

Nineteen inorganic analytes were reported in the on-site surface soil samples. Eighteen of these analytes were detected in the background sample (SS02-1). Two of the inorganic analytes were estimated (bias unknown), mercury at the nondetect value of 0.02 mg/kg and cadmium at the concentration of 0.32 mg/kg.

Of the 19 analytes reported in the on-site surface soil samples, only copper was detected at significant concentrations. Copper was reported at the concentrations of 56 mg/kg in the sample collected from the site road surface (SS04-1), 76.6 mg/kg in the sample collected near the pile of creosote logs (SS03-1), and 180 mg/kg in the east site soil sample (SS01-1).

5.3.4 Pesticides/PCBs

No pesticides were reported in the on-site surface soil samples collected from the ARDR site.

No PCBs were detected in the background sample (SS02-1). Aroclor-1260 was reported as a nondetect in sample SS02-1.

Aroclor-1260 was detected at significant concentrations in three on-site surface soil samples: 360 μg/kg in SS01-1 (east site soil), 350 μg/kg in SS03-1 (near the pile of creosote logs), and 410 μg/kg in SS04-1 (site road surface). None of these reported values were estimated.

5.4 SUBSURFACE SOIL

Subsurface soil sample (18 to 24 inches below the ground surface) results are provided in Table 5-5.

Subsurface soil sample SS02-2 was designated as background for comparison purposes. This sample was collected from the site fill material and was used to evaluate significant concentrations of site subsurface soil samples. A site subsurface soil sample was used as background to characterize the fill material at the ARDR site, which may not be native to the area.

Table 5-5
Subsurface Soil Sample Results, Avery, Idaho
August 26, 1992

Substance Detected	Background		East Site Soil		Area Near Creosote Logs - Black Soil		Along Site Graded Road Surface		Along Side of Former RR Buildings		Along Top of River Embankment		Along Side of Former RR Buildings - Duplicate	
	SS02-2	Qualifier	SS01-2	Qualifier	SS03-2	Qualifier	SS04-2	Qualifier	SS05-2	Qualifier	SS06-2	Qualifier	SS07-2	Qualifier
Volatile Organics (µg/kg)														
1,1,1-Trichloroethane	3	UJ	3	UJ	350	UJ	3	UJ	3	UJ	0.6	J	1	J
Methylene chloride	3	J	16	U	1,700	U	14	U	3	U	16	U	16	U
1,1-Dichloroethene	0.1	J	3	U	350	U	3	U	3	UJ	3	U	3	U
Trichlorofluoromethane	0.7	J	3	U	350	UJ	3	UJ	0.7	J	3	UJ	3	UJ
Methane, Dichlorodifluoro-	41	UJ	14	J	1,700	UJ	3	UJ	14	J	3	UJ	16	UJ
1,2,3-Trichlorobenzene	3	U	3	UJ	350	U	3	U	3	UJ	4	J	3	UJ
Naphthalene	1	J	3	UJ	**6,400**		3	U	3	UJ	3	UJ	2	J
1,2,4-Trimethylbenzene	3	U	3	UJ	**5,900**		3	U	3	UJ	3	UJ	3	UJ
1,2-Dibromo-3-chloro-propene	16	U	16	UJ	1,700	U	14	U	14	UJ	**16**		16	UJ
p-Isopropyltoluene	3	U	3	UJ	**1,500**		3	U	3	UJ	3	UJ	3	UJ
Ethylbenzene	3	U	3	UJ	**65**	J	3	U	3	U	3	U	3	UJ
Benzene, propyl-	3	U	3	UJ	**110**	J	3	U	3	UJ	3	UJ	3	UJ
1,3,5-Trimethylbenzene	3	UJ	3	UJ	**5,000**	J	3	U	3	U	3	UJ	3	UJ
Toluene	3	U	0.5	J	**49**	J	3	U	3	U	3	U	3	UJ
1,2,4-Trichlorobenzene	3	U	3	UJ	350	U	3	U	3	UJ	8	J	3	UJ
Total xylenes	3	U	3	UJ	**1,620**		3	U	NAF		3	UJ	3	UJ

Table 5-5 (Continued)
Subsurface Soil Sample Results, Avery, Idaho
August 26, 1992

Substance Detected	Background		East Site Soil		Area Near Creosote Logs - Black Soil		Along Site Graded Road Surface		Along Side of Former RR Buildings		Along Top of River Embankment		Along Side of Former RR Buildings - Duplicate	
	SS02-2	Qualifier	SS01-2	Qualifier	SS03-2	Qualifier	SS04-2	Qualifier	SS05-2	Qualifier	SS06-2	Qualifier	SS07-2	Qualifier
Semivolatile Organics (µg/kg)														
Benzo(a)pyrene	120	U	240	J	740	J	16	J	650		**1,600**		91	J
Dibenzo(a,h)anthracene	310	U	2,300	U	2,000	U	670	UJ	170	J	210	J	1,000	U
Benzo(a)anthracene	120	U	310	J	**2,200**		28	J	**770**		**1,500**		270	J
Isophorone	8	J	900	U	790	U	47	J	50	J	**3,000**		**820**	J
Acenaphthene	120	U	72	J	**8,700**	J	260	UJ	440	U	400	U	91	J
Phenanthrene	9	J	**1,200**		**31,000**		27	J	**6,800**		**680**		4,300	U
N-Nitrosodiphenylamine	17	J	12,000	UJ	10,000	UJ	3,500	UJ	92	J	5,200	UJ	84	J
Fluorene	120	U	58	J	**11,000**		2	J	68	J	400	U	31	J
Carbazole	630	UJ	4,600	UJ	4,100	UJ	1,400	UJ	350	J	2,100	UJ	130	J
Naphthalene, 1-Methyl-	120	U	370	J	**55,000**		14	J	**1,900**		**190**		**1,800**	
Naphthalene	120	U	300	J	**6,000**		11	J	**5,700**		**190**		**4,400**	
2-Methylnaphthalene	120	U	360	J	**46,000**		16	J	**2,500**		**250**		**2,200**	
bis(2-Ethylhexyl) phthalate	120	U	900	U	**6,100**	J	1,300	U	440	U	400	U	2,300	U
Anthracene	120	U	194	J	**2,600**	J	3	J	460	J	63	J	220	J
1,2,4-Trichlorobenzene	120	U	900	U	790	U	260	UJ	440	U	**2,900**		400	U
Pyrene	9	J	**1,300**		**5,900**		39	J	**3,400**		**3,200**		**850**	
Dibenzofuran	120	U	390	J	790	U	5	J	3,400	U	51	J	**2,500**	
Benzo(g,h,i)perylene	120	U	470	J	790	U	260	UJ	**910**		**1,300**		400	U
Indeno(1,2,3-cd)pyrene	120	U	260	J	790	U	16	J	**930**		**1,100**		170	J

Table 5-5 (Continued)
Subsurface Soil Sample Results, Avery, Idaho
August 26, 1992

Substance Detected	Background		East Site Soil		Area Near Creosote Logs - Black Soil		Along Site Graded Road Surface		Along Side of Former RR Buildings		Along Top of River Embankment		Along Side of Former RR Buildings - Duplicate	
	SS02-2	Qualifier	SS01-2	Qualifier	SS03-2	Qualifier	SS04-2	Qualifier	SS05-2	Qualifier	SS06-2	Qualifier	SS07-2	Qualifier
Benzo(b)fluoranthene	120	U	610	J	470	J	43	J	**2,300**		**1,800**	J	**760**	
Fluoranthene	9	J	**1,100**	J	**1,700**		50	J	**3,400**		**2,300**		**1,700**	
Benzo(k)fluoranthene	120	U	900	U	790	UJ	20	J	**580**		670	J	210	J
Acenaphthylene	120	U	900	U	790	U	260	UJ	440	U	37	J	24	J
Chrysene	120	U	620	J	**2,500**		32	J	**1,800**		**1,700**	J	**670**	
Retene	120	U	870	J	790	U	37	J	**1,600**		450	J	**1,100**	
Total Metals (mg/kg)														
Selenium	0.20	UJ	0.20	U	0.20	U	0.20	UJ	0.20	U	0.45	J	0.46	J
Mercury	0.20	UJ	0.12	J	0.02	UJ	0.04	J	0.037	J	0.58	J	0.057	J
Calcium	2,070		3,250		1,460		4,420		5,400		4,510	J	8,050	J
Magnesium	5,260		2,580		2,070		6,410		3,590		3,580		3,360	
Potassium	1,370		437		240		2,490		1,150		687		933	
Arsenic	68.8		10	J	5.3	J	40.7		46.5		19.9		39.9	
Barium	42.8		**148**		21		**137**		**247**		**298**		**597**	
Beryllium	0.502		0.43	J	0.37	J	0.572		0.859		1.04		1.45	
Cadmium	0.33	J	0.39	J	0.33	J	0.49	J	0.58	J	0.81	J	0.51	J
Chromium	10.5		11.8		8.77		10.3		7.94		10.1		9.94	
Cobalt	9.63		4.74		4.79		9.21		8.17		9.85		8.58	
Copper	15.1		**225**		43.6		34.8		**123**		**383**		**184**	
Lead	25.8		**211**		31		47.8		**225**		**533**	J	**292**	

Table 5-5 (Continued)
Subsurface Soil Sample Results, Avery, Idaho
August 26, 1992

Substance Detected	Background		East Site Soil		Area Near Creosote Logs - Black Soil		Along Site Graded Road Surface		Along Side of Former RR Buildings		Along Top of River Embankment		Along Side of Former RR Buildings - Duplicate	
	SS02-2	Qualifier	SS01-2	Qualifier	SS03-2	Qualifier	SS04-2	Qualifier	SS05-2	Qualifier	SS06-2	Qualifier	SS07-2	Qualifier
Manganese	323		264		96		502		401		317		371	
Nickel	12.2		15.9		16.9		13.7		23.3		71.8	J	33.9	
Silver	3.67		3.53	J	1.35	J	3.6		3.17	J	3.03	J	3.62	J
Vanadium	13.3		20.4		**46.2**		15.3		33.6		**75.2**		**49.1**	
Zinc	15.9		65.8		41.9		97.8		78.4		403	J	63.7	J
Aluminum	8,420		4,180		3,880		12,500		7,390		6,940		10,200	
Iron	20,300		18,700		8,210		19,600		17,800		17,400		20,400	
Pesticides/PCB (µg/kg)														
Aroclor-1260	50	U	**230**		**170**		**150**		**370**		**86,700**		**130**	

Qualifiers:
J - The value is an estimate.
U - Analyte or compound was not detected at or about the shown value
UJ - Analyte or compound was not detected at or above the shown value; the shown value is an estimate of the sample quantitation limit for this analyte or compound

Notes:
NAF - Not analyzed for
Highlighted data indicate significantly elevated concentration

5.4.1 Volatile Organics

Sixteen VOCs were reported in the subsurface soil samples collected at this site. Four of these VOCs were detected in the background subsurface soil sample (SS02-2): methylene chloride, 1,1-dichloroethene, trichlorofluoromethane, and naphthalene. These values and some of the nondetects were estimated, bias unknown.

Of the 16 VOCs reported in the subsurface soil samples, 9 were detected at significant concentrations. Eight of these VOCs were reported in the sample collected near the pile of creosote logs (SS03-2): naphthalene at 6,400 μg/kg, 1,2,4-trimethylbenzene at 5,900 μg/kg, p-isopropyltoluene at 1,500 μg/kg, ethylbenzene at 65 μg/kg (estimated with an unknown bias), propylbenzene at 110 μg/kg (estimated with an unknown bias), 1,3,5-trimethylbenzene at 5,000 μg/kg (estimated with an unknown bias), toluene at 49 μg/kg (estimated with an unknown bias), and total xylenes at 1,620 μg/kg. The subsurface soil sample collected along the top of the river embankment (SS06-2) reported a significant concentration of 1,2-dibromo-3-chloropropene at 16 μg/kg.

5.4.2 Semivolatile Organics

Twenty-five semivolatile organic compounds were reported in the on-site subsurface soil samples. Five compounds were detected in the background sample (SS02-2) at estimated concentrations (bias unknown): isophorone, phenanthrene, n-nitrosodiphenylamine, pyrene, and fluoranthene. Only carbazole was reported as an estimated nondetect in sample SS02-2 (bias unknown). The remaining 19 semivolatile organic compounds were reported as nondetects in sample SS02-2.

Twenty-one semivolatile organic compounds were reported at significant concentrations in the subsurface soil samples collected at this site. The bias associated with estimated semivolatile data in Table 5-5 was unknown. No significant concentrations of semivolatile organics were detected in the site road surface sample (SS04-2). Only three compounds were reported at significant concentrations in the sample of the east site soil (SS01-2). Most of the significant concentrations were reported in the samples collected near the pile of creosote logs (12 compounds from sample SS03-2), along the side of the old railroad buildings (13 compounds from sample SS05-2 and 10 compounds from the duplicate sample SS07-2), and from the top of the river embankment (14 compounds from sample SS06-2).

The compounds detected in on-site soil samples included 17 PAHs: benzo(a)pyrene at 1,600 μg/kg (SS06-2), benzo(a)anthracene ranging from 770 μg/kg (SS05-2) to 2,200 μg/kg (SS03-2), acenaphthene at 8,700 μg/kg (SS03-2), phenanthrene ranging from 680 μg/kg (SS06-2) to 31,000 μg/kg (SS03-2), fluorene at 11,000 μg/kg (SS03-2), naphthalene ranging from 190 μg/kg (SS06-2) to 6,000 μg/kg (SS03-2), 1-methylnaphthalene ranging from 190 μg/kg (SS06-2) to 55,000 μg/kg (SS03-2), 2-methylnaphthalene ranging from 250 μg/kg (SS06-2) to 46,000 μg/kg (SS03-2), anthracene at 2,600 μg/kg (SS03-2), pyrene ranging from 850 μg/kg (SS07-2) to 5,900 μg/kg (SS03-2), benzo(g,h,i)perylene at 910 μg/kg (SS05-2) and 1,300 μg/kg (SS06-2), indeno(1,2,3-cd)perylene at 930 μg/kg (SS05-2) and 1,100 μg/kg (SS06-2), benzo(b)fluoranthene ranging from 760 μg/kg (SS07-2) to 2,300 μg/kg (SS05-2), fluoranthene ranging from 1,100 μg/kg (SS01-2) to 3,400 μg/kg (SS05-2), benzo(k)fluoranthene at 580 μg/kg (SS05-2), chrysene ranging from 670 μg/kg (SS07-2) to 2,500 μg/kg (SS03-2), and retene at 1,100 μg/kg (SS07-2) and 1,600 μg/kg (SS05-2).

The remaining significant concentrations of semivolatile organic compounds were isophorone at 820 μg/kg (SS07-2) and 3,000 μg/kg (SS06-2), bis(2-ethylhexyl)phthalate at 6,100 μg/kg (SS03-2), 1,2,4-trimethylbenzene at 2,900 μg/kg (SS06-2), and dibenzofuran at 2,500 μg/kg (SS07-2).

5.4.3 Total Metals

Twenty inorganic analytes were detected in the ARDR site subsurface soils. Eighteen of these analytes were reported in the background sample (SS02-2). Selenium and mercury were reported as estimated (unknown bias) nondetect in background sample SS02-2. The reported value for cadmium was also estimated (unknown bias) in the background sample (SS02-2).

Of the 20 analytes detected in the subsurface soil samples collected at the ARDR site, only barium, copper, lead, and vanadium were reported at significant concentrations. Barium was reported in site subsurface soil samples at significant concentrations ranging from 137 mg/kg (SS04-2) to 597 mg/kg (SS07-2). Copper was present at significant concentrations ranging from 123 mg/kg (SS05-2) to 383 mg/kg (SS06-2). The reported concentrations for lead in the site samples ranged from 211 mg/kg (SS01-2) to 533 mg/kg (SS06-2). The value reported in the east site soil sample (SS01-2) was estimated (unknown bias). Vanadium was detected at significant concentrations ranging from 46.2 mg/kg (SS03-2) to 75.2 mg/kg (SS06-2).

5.4.4 Pesticides/PCBs

No pesticide compounds were detected in any subsurface soil samples collected at the ARDR site.

PCB compounds were reported as not detected in the background subsurface soil sample (SS02-2). Aroclor-1260 was detected at significant concentrations in all other on-site subsurface soil samples. Aroclor-1260 concentrations ranged from 130 μg/kg (SS07-2) to 86,700 μg/kg (SS06-2). None of these values were estimated.

5.5 QUALITY CONTROL SAMPLES

Quality control samples collected during the sampling at the ARDR site included a trip blank and duplicates of groundwater, river sediment, oily seep sediment, site surface soil, and site subsurface soil. The trip blank (WBW01) results reported only dichlorodifluoromethane at the estimated (unknown bias) concentration of 0.7 μg/L. All other VOCs were reported as not detected in the blank sample (WBW01).

The duplicate groundwater samples (WSW01 and WSW02) reported similar concentrations of the same compounds and analytes (Table 5-2)

Duplicate river sediment samples (SS002 and SS004) indicate greater variability between the sediment collected (Table 5-3). The results for these samples are not similar. None of the VOCs reported in sample SS002 were reported in sample SS004. Many semivolatile compounds were reported in only one sample, and the compounds reported in both samples were at dissimilar concentrations. Some of the total metals analytes were reported at similar concentrations in the river sediment sample. Aroclor-1260 was only detected in sample SS002. Due to field sampling difficulties, samples SS002 and SS004 were not collected as composites.

Oily seep sediment samples (ORS01 and ORS02) reported higher concentrations of contaminants in sample ORS01 than those reported for sample ORS02. Ten contaminants (mostly semivolatile organic compounds) were reported only in one sample or the other. The remaining detected contaminants were reported in both samples.

The duplicate soil samples (surface and subsurface) were collected near the former railroad buildings located in the middle of the site. The results of these samples indicate

low levels of contamination with a slight variation in contaminants reported at significant concentrations. The duplicate subsurface soil sample data report similar contaminants at comparable concentrations. The reason for the variability between duplicate samples is not known.

5.6 SUMMARY

The objectives of this SI were to assess the potential for releases of hazardous constituents into the environment and the potential threat to public health or the environment posed by the site. The primary environmental threat documented at this site is the release of an oily material into the St. Joe River. The secondary threat to humans and the environment is the presence of contamination in the soils at this site.

The contaminants of concern at the ARDR site are solvents (VOCs), petroleum hydrocarbons (semivolatiles), metals, and PCBs (Section 2.2). Table 5-6 indicates the areas where significant levels of these contaminants of concern were detected. The sampling results are separated into groundwater, sediment, and site soil categories. The table identifies where the data report significant concentrations in the specific area, either on- or off-site.

No significant compounds were reported in the residential groundwater samples collected from local wells. These data indicate that contaminants from the ARDR are not present in the area groundwater. These data are not conclusive; no sample was collected of the on-site residential well nor of the wells located west (the assumed direction of groundwater flow) of the site.

The on-site well sample indicates that VOCs, semivolatile (PAH) compounds, and inorganic analytes are present in the groundwater below the site. These data support the information concerning reported release of solvents and fuel oils to the site by railroad operations.

Results from the upstream and downstream sediment samples did not indicate significant concentrations of contaminants of concern at this site. This information appears to indicate that the observed release of contaminants from the site (oily seep) into the St. Joe River are diluted or are not deposited. Contaminants of concern were reported at significant concentrations in the oily seep sediment samples and site river sediment

Table 5-6
Presence of Contaminants of Concern at ARDR

Location of Sampling	Volatile Organic Compounds (solvents)	Semivolatiles (solvents, petroleum hydrocarbons)	Total Metals	PCB
Off-site wells	No	No	No	No
On-site well	**Yes**	**Yes**	**Yes**	No
Site river sediments	No	**Yes**	**Yes**	**Yes**
Oily seep sediments	**Yes**	**Yes**	No	**Yes**
Downstream river sediments	No	No	No	No
On-site surface soils	**Yes**	**Yes**	**Yes**	**Yes**
On-site subsurface soils	**Yes**	**Yes**	**Yes**	**Yes**

samples (less than 100 feet downstream of the oily seep). These data confirm the observed release of visible oily seep contaminants to the St. Joe River.

Site soils contained significant concentrations of contaminants of concern. The presence of significant concentrations of PAH compounds at the ARDR site support the information concerning historical railroad activities. These compounds are associated with coal, oil, and gasoline. The fueling and maintenance activities conducted at this site would indicate the presence of these PAH compounds in site soils.

In general, the site data indicate the presence of significant levels of contamination in the groundwater below the site, the oily material seeping from the site, and on-site soils.

6.0 REFERENCES

Allen, Pat. 1992. Assistant Public Works Director for Shoshone County, Idaho. Personal communication with Michelle Wittenbrink, URS Consultants, Inc., April 20, 1992.

Davis, Bill. 1993. File Manager for the Potlatch Corporation. Personal communication with Kara Steward, URS Consultants, Inc., January 5, 1993.

Fish, Mike. 1992. Construction Services Manager for the Potlatch Corporation. Personal communication with Kara Steward, URS Consultants, Inc., May 5, 1992, and August 26, 1992.

———. 1991. Avery Landing Site—Proposed Remediation. Letter to Brian Painter and Lisa Prochnow of IDEQ, dated March 27, 1991.

Hart-Crowser, Inc. 1989a. Avery Idaho Site Preliminary Environmental Service. Letter to Mike Fish of Potlatch, dated August 23, 1989.

———. 1989b. Site Exploration Report, Avery Landing Site, Avery, Idaho. Letter to Mike Fish of Potlatch, dated October 27, 1989.

Idaho Department of Water Resources (IDWR). 1979. Well Driller's Report - Potlatch Corp. Northern Logging Unit. Well drilled on 12/10/79 by American Drilling, Spokane.

Idaho Division of Environmental Quality (IDEQ). 1991a. Avery Railroad Dump and Roundhouse PA Report.

———. 1991b. Avery Landing Site—Proposed Remediation. Letter from Brian Painter and Lisa Prochnow of IDEQ to Mike Fish of Potlatch, dated January 23, 1991.

International Air Transport Association (IATA). 1987. Dangerous Goods Regulations. 29th Edition.

APPENDIX A

SITE PLAT MAP
(Circa 1915)

4.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR BALLPOINT PEN

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

1. WELL OWNER

Name: Potlatch Corp. Northern Unit Logging
Address: Box 386 St. Maries, Idaho 83861
Owner Permit No.

2. NATURE OF WORK

[X] New well [ ] Deepened [ ] Replacement
Abandoned (describe method of abandoning)

3. PROPOSED USE

[ ] Domestic [ ] Irrigation [ ] Test [ ] Municipal
[ ] Industrial [ ] Stock [ ] Waste Disposal or Injection
[X] Other Commercial Logging camp (specify type)

4. METHOD DRILLED

[X] Rotary [ ] Air [ ] Hydraulic [ ] Reverse rotary
[ ] Cable [ ] Dug [ ] Other

5. WELL CONSTRUCTION

Casing schedule: [X] Steel [ ] Concrete [ ] Other

Thickness	Diameter	From	To
.250 inches	8 inches	1 feet	28 feet
.250 inches	6 inches	3 feet	67 feet
— inches	— inches	— feet	— feet
— inches	— inches	— feet	— feet

Was casing drive shoe used? [X] Yes [ ] No
Was a packer or seal used? [ ] Yes [X] No
Perforated? [X] Yes [ ] No
How perforated? [ ] Factory [ ] Knife [X] Torch
Size of perforation ¼ inches by 12 inches

Number	From	To
60 perforations	47 feet	67 feet
perforations	feet	feet
perforations	feet	feet

Well screen installed? [ ] Yes [X] No
Manufacturer's name
Type Model No.
Diameter Slot size Set from feet to feet
Diameter Slot size Set from feet to feet
Gravel packed? [ ] Yes [X] No [ ] Size of gravel
Placed from feet to feet
Surface seal depth 18 Material used in seal: [ ] Cement grout [X] Puddling clay [ ] Well cuttings
Sealing procedure used: [ ] Slurry pit [ ] Temp. surface casing [X] Overbore to seal depth
Method of joining casing: [ ] Threaded [X] Welded [ ] Solvent Weld [ ] Cemented between strata
Describe access port welded

6. LOCATION OF WELL

Sketch map location must agree with written location.

N / W / E / S

Subdivision Name
Lot No. 1 Block No.
County xShoshone Shoshone
¼ ¼ Sec. 16 T. 45 N/S R. 5 E/W

7. WATER LEVEL

Static water level 20 feet below land surface
Flowing? [ ] Yes [X] No G.P.M. Flow
Artesian pressure p.s.i.
Controlled by [ ] Valve [ ] Cap [ ] Plug
Temperature cold °F Quality good

8. WELL TEST DATA

[ ] Pump [ ] Bailer [X] Air [ ] Other

Discharge G.P.M.	Pumping Level	Hours Pumped
50 G.P.M.		

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
8	0	18	fill sealed out water	X	
8	18	30	cemented gravel		X
8	30	31	soft area	X	
8	31	57	brown shale		X
8	57	58	fractured area	X	
8	58	60	brown shale		X
8	60	61	fractured area	X	
8	61	64	brown shale		X
8	64	67	fractures areas	X	

Department of Water Resources
Northern District Office

10. Work started 11/16/79 finished 11/26/79

11. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name American Drilling Firm No. 269
Address P.O. Box 14977 Spokane Date 12/10/79
Signed by (Firm Official)
and
(Operator) B.O. Murphy

USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT

300 yards downstream roughly, well still in use. well routinely tested.

3.

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Administration

WELL DRILLER'S REPORT

1 WELL OWNER
Name E.N.F. INC.
Address AKRY IDAHO
Owner's No. Northern Inc.
652 Central Ave.
Sandpoint, Idaho

2 NATURE OF WORK
☑ New well ☐ Deepening ☐ Reconditioning
☐ Abandonment

3 PROPOSED USE
☑ Domestic ☐ Irrigation ☐ Test ☐ Other (specify)
☐ Municipal ☐ Industrial ☐ Stock ☐ Other (specify)

4 METHOD DRILLED
☐ Cable ☑ Rotary ☐ Dug ☐ Other

5 WELL CONSTRUCTION
Diameter of hole 6 inches Total depth 125 feet
Casing schedule: ☑ Steel ☐ Concrete

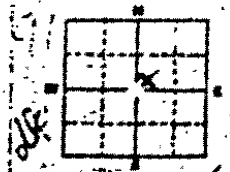
Thickness	Diameter	From	To
.250 inches	6 inches	2 feet	22 feet
.250 DIC inches	4 inches	25 feet	125 feet
inches	inches	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet

Was a packer or seal used? ☐ Yes ☑ No
Perforated? ☑ Yes ☐ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation 1/4 inches by 1/4 inches

Number		From	To
160	perforations	100 feet	125 feet
	perforations	feet	feet
	perforations	feet	feet

Well screen installed? ☐ Yes ☑ No
Manufacturer's name
Type Model No.
Diameter Slot size Set from feet to feet
Diameter Slot size Set from feet to feet
Gravel packed? ☐ Yes ☑ No Size of gravel
Placed from feet to feet
Surface seal depth 20 Material used to seal: ☐ Cement grout ☑ Puddling clay ☑ Mill cuttings
Seating procedure used: ☐ Slurry pit ☐ Temporary surface casing ☑ Overburn to seal depth

6 LOCATION OF WELL
Sketch map location must agree with written location.



Subdivision Name
Lot No. Block No.
County Bonner
SE ¼ NW ¼ Sec. 17 T. 45 N R. 5 W B.M.

7 WATER LEVEL
Depth at which water was first found 20 ☐ Artesian ☐ Flow
Static level 120 Date 6-6-84 Quality Good
Artesian pressure lbs. ☐ Controlled ☐ Flow

8 WELL TEST DATA
Test: ☐ Pump ☐ Bailer ☑ Other AIR
Yield 220 G.P.M. Drawdown Hours Pumped 1 HR.

9 LITHOLOGIC LOG

Depth From	Depth To	Material	Water Yes/No
0	23	Clay & Gravel Fill & Boulders	✓
23	125	Granite Quartz Biotite Feldspar Garnet Hard	✓

10 Work started 6-5-84 Finished 6-6-84

11 DRILLER'S CERTIFICATION
Driller (Print) Name Gerald D. Kirk Driller No. 126
Address C.D.A. Idaho Date 6-6-84
Signed by (Print Official) Gerald D. Kirk
and
Driller Gerald D. Kirk

USE ADDITIONAL SHEETS IF NECESSARY FORWARD THE WHITE COPY TO THE DEPARTMENT

Form 238-7
9-82

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR BALLPOINT PEN

2.

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

1. WELL OWNER

Name Richard A. or Joy L. Packer

Address Box 36 Avery, Id 83802

Owner's Permit No. _____

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED

☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
.250 inches	6 inches +	2 feet	24 feet
inches	inches	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet

Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches

Number	From	To
perforations	feet	feet
perforations	feet	feet
perforations	feet	feet

Well screen installed? ☐ Yes ☒ No
Manufacturer's name _____
Type _____ Model No. _____
Diameter ___ Slot size ___ Set from ___ feet to ___ feet
Diameter ___ Slot size ___ Set from ___ feet to ___ feet
Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____
Placed from _____ feet to _____ feet
Surface seal depth 24 Material used in seal: ☐ Cement grout
☒ Bentonite ☐ Puddling clay ☒ Cuttings
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing
☒ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port _____

6. LOCATION OF WELL

Sketch map location must agree with written location.

N / W / E / S — X

Subdivision Name _____

Lot No. _____ Block No. _____

County Sub-Shore

SW ¼ SW ¼ Sec. 15, T. 45 N S, R. 5 E W.

7. WATER LEVEL

Static water level 16 feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by ☐ Valve ☒ Cap ☐ Plug
Temperature cold °F Quality Good
Describe artesian or temperature zones below

8. WELL TEST DATA

☐ Pump ☐ Bailer ☒ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
15	variable	½ hr

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
8	0	16	Clay and Shale		X
	16	24	Shale		X
6	24	175	Shale	X	

RECEIVED
JUN 17 1985
Department of Water Resources
Northern District Office

Department of Water Resources

10. Work started 6/11/85 finished 6/12/85

11. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name Associated Well Drillers Inc Firm No. 245

Address Box 723 C.D.A. Date 6/13/85

Signed by (Firm Official) [signature]

and

(Operator) Robert F. Degitz

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

1.

Form 238 7
1 78

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR BALLPOINT PEN

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

1. WELL OWNER

Name: Avery School District

Address: Avery, Idaho

Owner's Permit No. ____

2. NATURE OF WORK

☐ New well ☒ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning) ____

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other School District (specify type)

4. METHOD DRILLED

☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other ____

5. WELL CONSTRUCTION

Casing schedule: ☐ Steel ☐ Concrete ☐ Other PVC

Thickness	Diameter	From	To
4 inches	4 inches	11 feet	150 feet
____ inches	____ inches	____ feet	____ feet
____ inches	____ inches	____ feet	____ feet
____ inches	____ inches	____ feet	____ feet

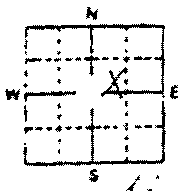
Was casing drive shoe used? ☐ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation ____ inches by ____ inches

Number	From	To
____ perforations	____ feet	____ feet
____ perforations	____ feet	____ feet
____ perforations	____ feet	____ feet

Well screen installed? ☐ Yes ☒ No
Manufacturer's name ____
Type ____ Model No ____
Diameter ____ Slot size ____ Set from ____ feet to ____ feet
Diameter ____ Slot size ____ Set from ____ feet to ____ feet
Gravel packed? ☐ Yes ☐ No ☐ Size of gravel ____
Placed from ____ feet to ____ feet
Surface seal depth ____ Material used in seal: ☐ Cement grout
Existing ☐ Puddling clay ☐ Well cuttings
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing
☐ Overbore to seal depth
Method of joining casing: ☐ Threaded ☐ Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port ____

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name ____

Lot No. ____ Block No. ____

County Shoshone

Sec. 15 T 45 N/S, R. 5E E/W.

7. WATER LEVEL

Static water level 15 feet below land surface.
Flowing? ☐ Yes ☐ No G.P.M. flow 120 gpm
Artesian closed-in pressure ____ p.s.i.
Controlled by ☐ Valve ☐ Cap ☐ Plug
Temperature ____ °F Quality ____

8. WELL TEST DATA

☐ Pump ☐ Bailer ☒ Air ☐ Other ____

Discharge G.P.M.	Pumping Level	Hours Pumped
120 gpm		

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
	105	150	gray shale		
	150	160	broken shale		
			last 10' of hole		

10. Work started 5-16-82 finished 5-18-82

11. DRILLERS CERTIFICATION 22

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name Clearwater Drilling, Inc. Firm No. 214

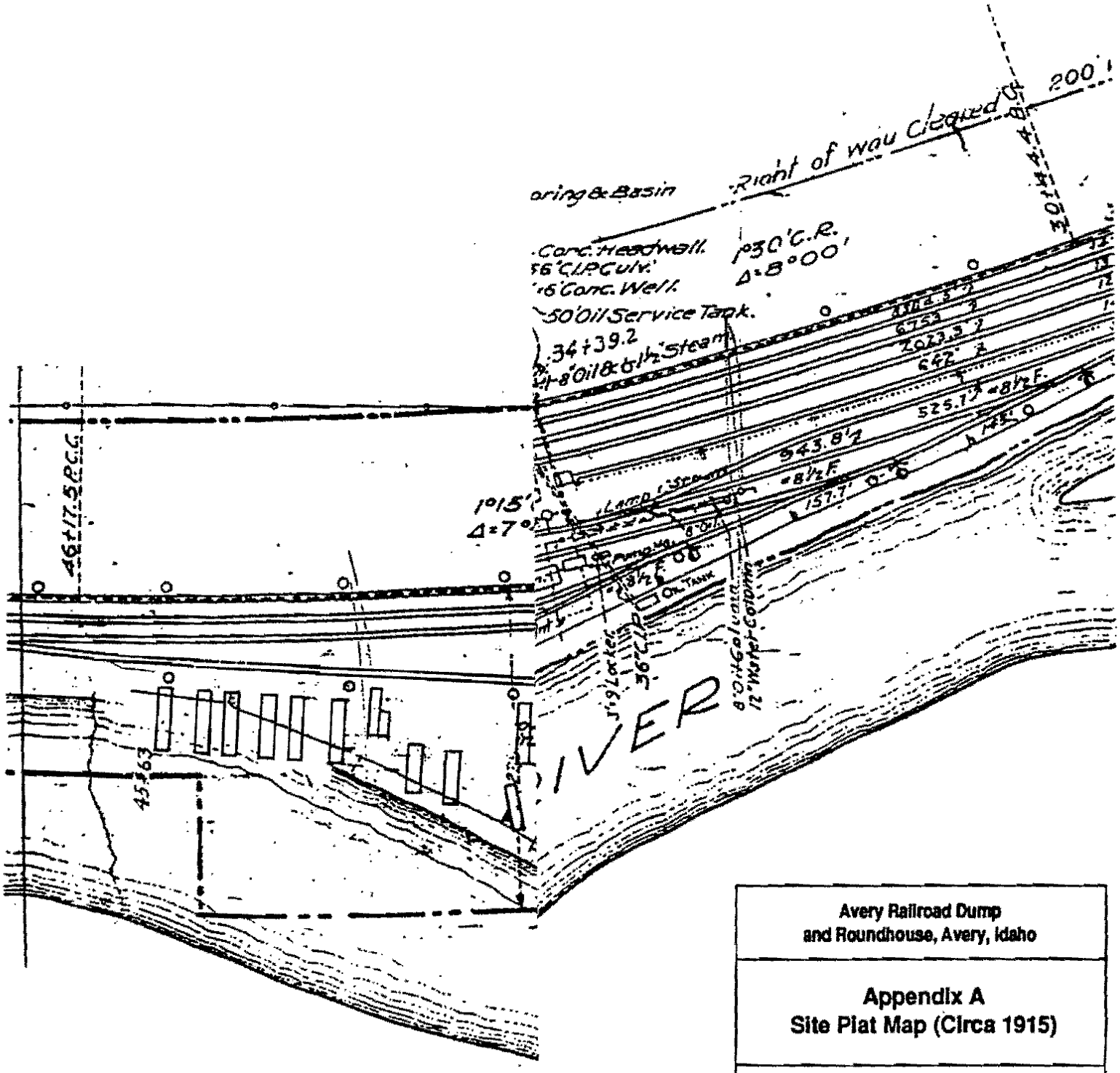
Address Hayden Lake Date 5-20-82

Signed by (Firm Official) Fred Kimbly

and

(Operator) Bill Kimbly

USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT



Avery Railroad Dump and Roundhouse, Avery, Idaho

Appendix A
Site Plat Map (Circa 1915)

URS
CONSULTANTS

0 Feet 100

NORTH

Source: IDEQ 1991

APPENDIX B

IDAHO WELL DRILLER'S REPORTS

APPENDIX C

CALCULATION FOR NET PRECIPITATION

URS CONSULTANTS, INC.

[redacted]

Calculation for Net Precipitation

Calculation performed according to HRS Final Rule
(40 CFR Part 300), Section 3.1.2.2 using formulas:

Net Precipitation = Monthly Precipitation - Evapotranspiration (E)
E(Jan..Dec) = 0.6*F(Jan..Dec)[10T(Jan..Dec)/I]^a
Variables:

E(Jan..Dec) = Monthly potential evapotranspiration, if E<0 then E=0 is used
F(Jan..Dec) = Monthly latitude adjusting value
T(Jan..Dec) = Mean monthly Temperature (Centigrade)
I = Sum[T(Jan..Dec)/5]^1.514
a = 6.75*(10^-7)*(I^3)-7.71*(10^-5)*(I^2)+1.79*(10^-2)*I+0.49239

Date: 01/06/93
Site: Avery Railroad Dump and Roundh
Latitude: 47 12' 13.65" N
Longitude: 115 49' 15" W

Individual of Data Entry: Kara Steward
Type of Temperture (C or F): F
DATA Available Temperture or Evap. (D or E): D
>Latitude (50,45,40,35,30,20,10,0): 45.00

(Fill in only the shaded spaces)

Month	Monthly Variables: Degree (C or F)	Precipitation	Evaporation		Calculated Variables: Variable T	Variable I	Variable a	Variable F	Variable E	Difference Variables: Precip-Evap.	Positive P-E
Jan	23.80	5.66		#	-4.56	-0.40		0.80	-0.71	5.66	5.66
Feb	30.50	3.49		#	-0.83	-0.07		0.81	-0.10	3.49	3.49
March	36.90	3.28		#	2.72	0.40		1.02	0.50	2.78	2.78
April	44.60	2.68		#	7.00	1.67		1.13	1.63	1.05	1.05
May	53.00	2.78		#	11.67	3.64		1.28	3.30	-0.52	0.00
June	60.70	2.22		#	16.94	5.86		1.29	4.74	-2.52	0.00
July	66.00	1.43		#	18.89	7.58		1.31	5.84	-4.41	0.00
Aug	65.90	1.48		#	18.83	7.55		1.21	5.37	-3.89	0.00
Sept	55.90	2.22		#	13.28	4.43		1.04	3.11	-0.89	0.00
Oct	45.10	2.26		#	7.28	1.77		0.94	1.42	0.84	0.84
Nov	34.00	4.20		#	1.11	0.10		0.79	0.14	4.06	4.06
Dec	27.30	4.96		#	-2.61	-0.23		0.75	-0.35	4.96	4.96
Average Annual Precipitation		36.66									
						Total I	Variable a				TOTAL
						32.29	5760.25				22.83

[redacted]

NET PRECIPITATION = 22.83 INCHES

[redacted]

AVERY R S 2 SHOSHONE County Station 100528

CLIMATOLOGICAL SUMMARY
Calendar Year 1968 -1989

DATE	TEMPERATURES (F)											PRECIPITATION (IN)										
	MONTHLY MEANS			DAILY RECORDS						DEGREE DAYS		TOTALS			DAILY			SNOWFALL			SNOWDEPTH		
MONTH	MAX	MIN	MNTH	HI	YR	DAY	LOW	YR	DAY	HEAT	COOL	MEAN	MAX	YR	HI	YR	DAY	MEAN	MAX	YR	MAX	YR	DAY
Jan	30.6	19.1	23.8	48	84	27	-17	79	1	1220	0	5.66	10.15	71	1.66	71	30	38.9	74.5	69	44	69	31
Feb	36.3	24.7	30.5	54	84	28	-20	85	4	981	0	3.49	8.00	72	1.25	71	10	19.0	40.0	72	48	69	2
Mar	45.2	28.6	36.9	75	78	30	0	76	4	888	0	3.28	5.81	89	1.60	84	23	4.6	13.7	70	33	72	4
Apr	55.8	33.3	44.6	88	87	29	21	73	7	622	1	2.68	4.60	74	1.07	70	24	0.5	3.8	70	23	75	1
May	66.7	39.0	53.0	91	88	23	24	88	5	371	8	2.78	5.27	84	1.50	79	5	0.0	0.0	.	0	.	.
Jun	75.7	45.7	60.7	98	87	15	30	83	29	159	41	2.22	5.36	81	1.35	71	27	0.0	0.0	.	0	.	.
Jul	83.3	48.6	66.0	102	85	9	34	71	7	59	95	1.43	3.87	83	1.27	81	7	0.0	0.0	.	0	.	.
Aug	83.4	48.2	65.9	104	69	23	34	69	29	54	92	1.48	4.26	76	1.10	75	22	0.0	0.0	.	0	.	.
Sep	70.2	41.6	55.9	99	88	4	24	70	14	274	12	2.22	4.44	86	1.83	76	23	0.0	0.0	.	0	.	.
Oct	56.0	34.2	45.1	84	87	7	11	71	29	609	0	2.26	6.05	75	1.27	89	21	0.5	6.0	71	2	71	31
Nov	39.1	29.1	34.0	62	87	1	1	82	23	924	0	4.20	6.98	89	1.87	82	22	7.8	26.4	75	20	75	30
Dec	31.6	22.9	27.3	50	77	4	-23	68	30	1164	0	4.96	10.43	77	2.80	77	1	25.9	61.4	71	28	71	15
ANNUAL	56.2	34.6	45.3	104			-23			7327	248	36.65	10.43		2.80			97.1	74.5		48		

2 yr 24 hr precip 1.8"

APPENDIX D

SITE VISIT AND SAMPLING PHOTO DOCUMENTATION LOG

URS Consultants	ARCS Photograph Log	DCL # 62760.05.20.144/15.b1	
Project Number: 4162760.05.07	Project/Site Name: Avery RR Dump & Roundhouse	Photographer(s) Signature(s): Kara Steward	
Camera Type: Cannon AE	Film Type/Speed: 200 ASA 35 mm	Roll Number: One	Date: August 25, 1992

Frame	Date	Time	Orientation	Subject
1	8/25/92	1200	SW	Oily seep area, location of samples ORS01 & ORS02.
2	8/25/92	1201	W	River and oil interface along site.
3	8/25/92	1210	W	Mule deer on site.
4	8/25/92	1210	NW	Mule deer on site; note Idaho road crew emissions.
5	8/25/92	1215	E	Mule deer on site.
6	8/25/92	1230	W	River bank view of upstream sediment sampling location. Looking toward site - (0.75 mile).
7	8/25/92	1230	W	View from river of upstream sediment sampling location.
8	8/26/92	0950	W	On-site monitoring well - MW-4 (Hart-Crowser Well).
9	8/26/92	0955	W	Oily material unable to be penetrated by bailer - level of oil = 10' below ground surface.
10	8/26/92	1010	S	MW-3 - removing grease pack from well to allow opening of well cap. - WMW01 sample. (Hart Crowser Well.)
11	8/26/92	1145	N	View of layered soil on site - sample site of SS03.
12	8/26/92	1155	SE	View of hole digging for sample SS04.

Date Delivered to Processor	Date Received from Processor	Comments
8/31/92	9/2/92	

2	8/25/92	1201	W

River and oil interface along site.

1	8/25/92	1200	SW

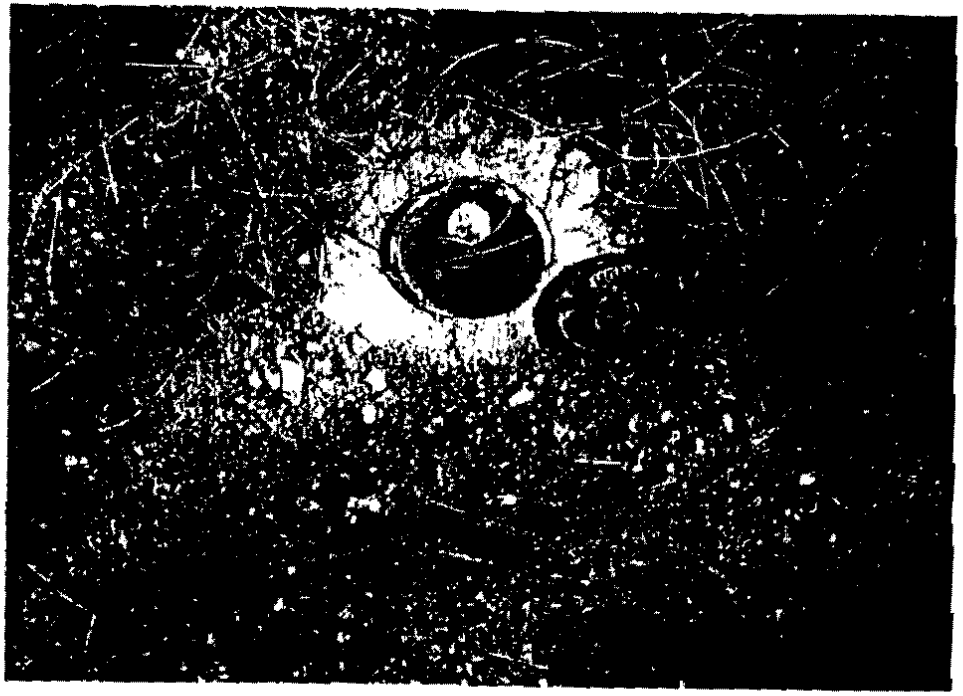
Oily seep area, location of samples ORS01 & ORS02.

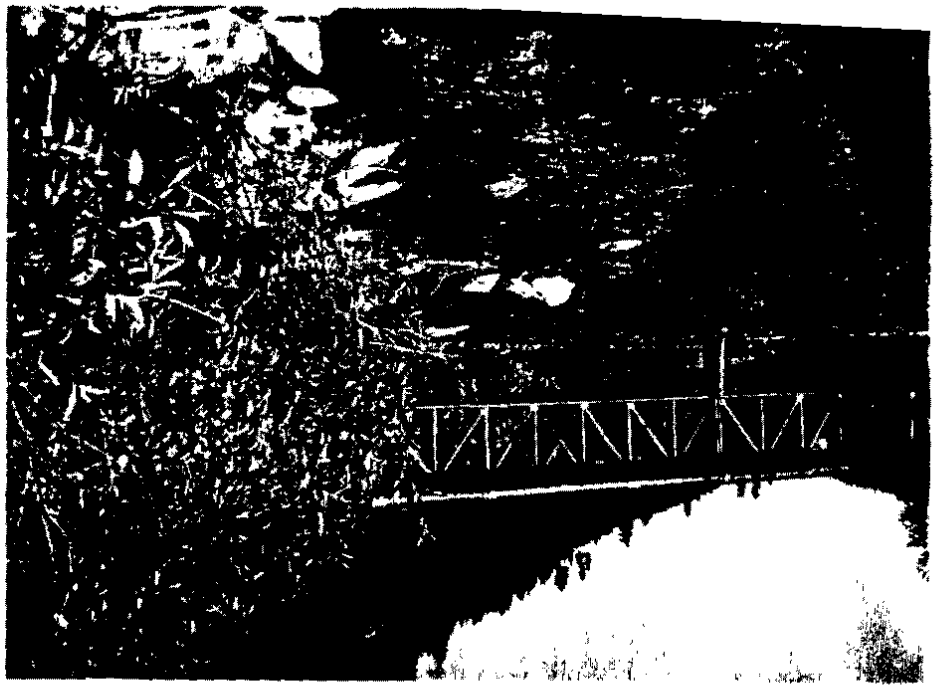
4	8/25/92	1210	NW

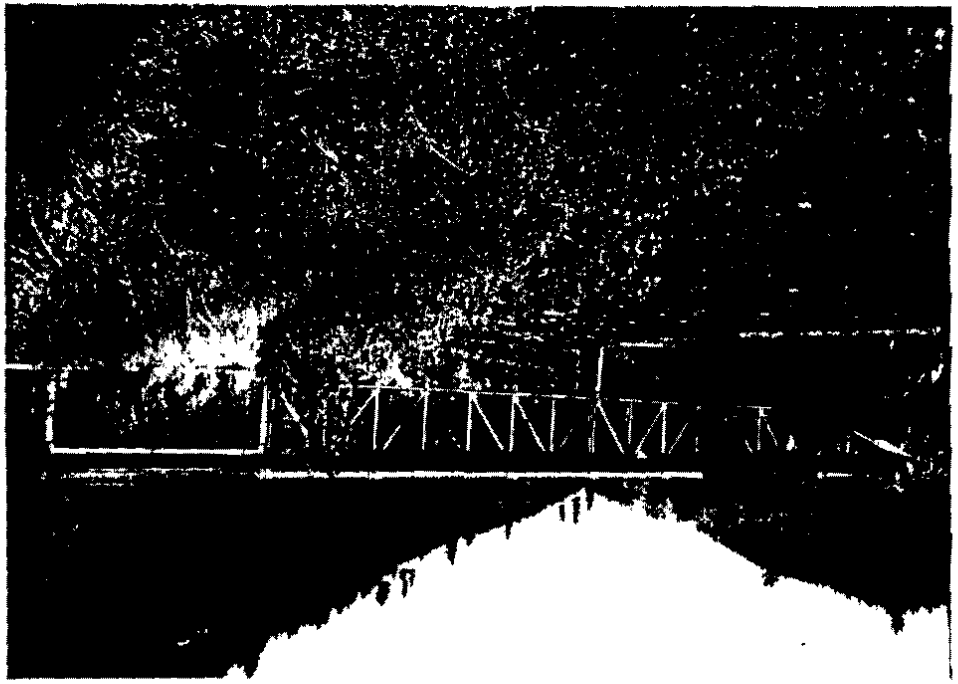
Mule deer on site; note Idaho road crew emissions.

3	8/25/92	1210	W

Mule deer on site.







6	8/25/92	1230	W

River bank view of upstream sediment sampling location. Looking toward site - (0.75 mile).

5	8/25/92	1215	E

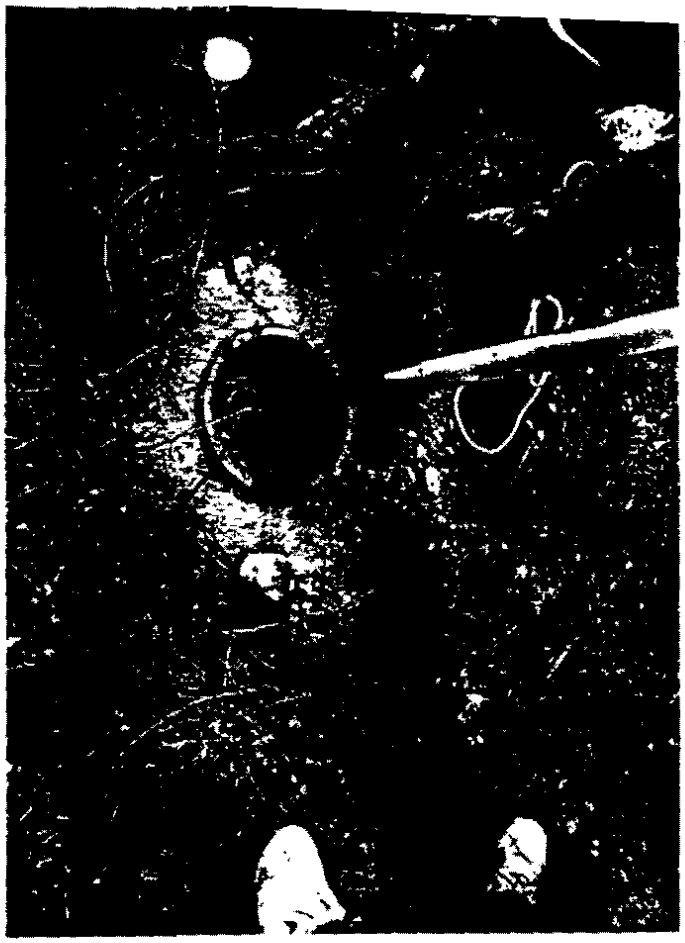
Mule deer on site.

8	8/26/92	0950	W

On-site monitoring well - MW-4 (Hart-Crowser Well).

7	8/25/92	1230	W

View from river of upstream sediment sampling location.



10	8/26/92	1010	S

MW-3 - removing grease pack from well to allow opening of well cap. - WMW01 sample. (Hart Crowser Well.)

9	8/26/92	0955	W

Oily material unable to be penetrated by bailer - level of oil = 10' below ground surface.

12	8/26/92	1155	SE

View of hole digging for sample SS04.

11	8/26/92	1145	N

View of layered soil on site - sample site of SS03.

APPENDIX E

DISCUSSION OF DATA QUALITY OBJECTIVES

APPENDIX E
DISCUSSION OF DATA QUALITY OBJECTIVES

Table E-1 summarizes data quality objectives and actual measures of these parameters for this SI.

Table E-1
Summary of Target and Actual Data Quality Objectives

Compound or Analyte of Interest	Accuracy		Precision		Completeness	
	Target %	Actual %	Target %	Actual %	Target %	Actual %
Volatile Organic Analysis	61-145	22-280	15	>30	100	92.3
Semivolatile Organic Analysis	9-145	41-122	50	>30	100	87.1
Pesticides/PCBs	38-127	20-146	30	15	100	92.3
Total Metals	75-127	5.3-119	20	20 (Pb = 140)	100	92.3
Mercury	75-127	53-112	20	20	100	92.3

ACCURACY

Volatile Organic Analysis

The matrix spike (MS) and matrix spike duplicate (MSD) recoveries for the water samples were within the target range except the recovery of one or both spike samples for trans-1,3-dichloropropene and cis-1,3-dichloropropene fell outside the EPA Region 10 acceptance range. The qualifier J was assigned to these analytes for sample WHC01. Recoveries ranged from 41 to 122 percent.

The MS and MSD recoveries for the soil samples were within the target range except the recovery of one or both spike samples and/or the percent difference for vinyl chloride, carbon disulfide, chloroethane, bromoform, bromomethane, chloromethane, 2-butanone, bromochloromethane, 4-methyl-2-pentanone, 2-hexanone, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, trichlorofluoromethane, and 1,2,3-trichlorobenzene fell outside the target range. The qualifier J was assigned to these analytes for sample SS05-2. All other recoveries or percent difference were acceptable. No additional data qualifiers

were required based on matrix spike recoveries. Recoveries for the MS/MSD ranged from 22 to 280 percent.

Semivolatile Organic Analysis

Recoveries for most of the water sample MS/MSD analytes were within the target range. One or both spike recoveries for four analytes—hexachloroethane, hexachlorocyclopentadiene, benzoic acid, and 3-nitroaniline—were outside the target range. All values for these analytes were given the qualifier J or UJ for the corresponding sample WSW02. No additional data qualifiers were required on the basis of MS/MSD results. Recoveries ranged from less than 50 percent to 122 percent.

Pesticides/PCBs

Target accuracy was met for the water samples. Target accuracy was not met for the soil samples. The samples ORS01 and SS004 analyzed for MS/MSD and the samples SS03-2 and SS03-1 contained high background, which required sulfuric acid treatment. This resulted in a low recovery for Endosulfan I and methoxychlor, as well as the total removal of Endrin and Dieldrin. These four pesticides are flagged with a J for those samples requiring acid treatment. The recoveries for the remainder of the pesticides were within the acceptable range. Recoveries for the MS/MSD ranged from 29 to 146 percent.

Total Metals

Target accuracy was met for the water samples. Target accuracy was not met for the soil samples. The recovery of at least one spike sample was low for antimony, lead, selenium, silver, and thallium. Both antimony and thallium exhibited low recoveries in all matrix spike samples, ORS01, SS003, SS02-1; thus, all antimony and thallium results were flagged with an N. Although lead exhibited poor matrix spike performance in sample SS02-1 (−240.6 percent to 80.6 percent), it was not flagged because the poor performance was a result of poor homogeneity. Selenium recoveries were low in matrix spike sample SS02-1 (70 percent) and therefore the results in the associated samples—SS02-1, SS02-2, SS04-1, SS04-2, SS06-1, and SS07-1—were qualified with an N. Silver recoveries were low in the matrix spike sample SS002 (67.4 percent, 70.1 percent) and therefore the results in the associated samples were qualified with an N. These samples include SS001, SS002, SS003, SS004, SS01-1, SS01-2, SS03-1, SS03-2, SS05-1,

SS05-2, SS06-2, and SS07-2. Recoveries for MS/MSD soil samples ranged from 5.5 to 119.3 percent.

Mercury

Matrix spike recoveries for the water samples were acceptable with the exception of one sample, WHC01. Mercury was flagged with an N because of slightly low recovery. Recoveries for MS/MSD water samples ranged from 71 to 112 percent.

All mercury results for the soil samples were flagged with an N based on the low recoveries (53 percent, 62 percent) from sample SS03-2.

PRECISION

Volatile Organic Analysis

Target precision was met for the water analysis. Target precision for soils exceeded 30 percent for several analytes.

Semivolatile Organic Analysis

Target precision for the water analysis exceeded 30 percent for eight compounds. All values for these specific analytes were given the qualifier J. The validation report does not provide adequate information to assess if the 50 percent precision target was met.

The continuing calibration response factor for 3-nitroaniline was low, resulting in this analyte being qualified as rejected.

Precision for soil samples was problematic. Results for two analytes, 3-nitroaniline and benzyl alcohol, were rejected. Several other analytes were J qualified.

Because of poor surrogate recoveries, the acid fractions of samples SS001, SS002, SS02-2, SS03-1, and SS07-1 were rejected.

Pesticides/PCBs

Target precision was met for both the water and soil analysis.

Total Metals

Target precision was met for the water analysis. Precision was problematic for the soil analysis due to the oily nature of the matrix. The samples underwent drying, particle reduction, and sieving in order to produce the best homogeneous mix possible. In the case of most analytes, these extra procedures helped to produce results with good precision. Lead was the only analyte that demonstrated consistently poor precision (RPD was 140 percent). The data were not qualified.

Mercury

Target precision was met for both water and soil analysis.

COMPLETENESS

Target completeness for this sampling effort was estimated to be 100 percent. The actual completeness for VOAs, pesticide/PCBs, total metals, and mercury is 92.3 percent. This is an acceptable level of completeness. Completeness was calculated to be 92.3 percent based on not collecting a second on-site groundwater sample and not using a second trip blank, as planned. Completeness for semivolatiles was further reduced, due to rejected laboratory analyses (see discussion for Precision), to 87.1 percent.

APPENDIX F

SAMPLE RESULTS
(August 25 and 26, 1992)

APPENDIX F

The following table presents the sample numbers in the following data reports that correspond to the sample identification numbers in the text of this report (refer to Table 4-1 for the description of the site sample location).

SI Report Sample Number	EPA Laboratory Number
WBW01 (VOCs only)	92352350
WAW01	92352351
WSW01	92352352
WSW02	92352353
WHCO1	92352354
ORS01	92352358
ORS02	92352359
SS001	92352360
SS002	92352361
SS003	92352362
SS004	92352363
SS01-1	92352364
SS01-2	92352365
SS02-1	92352366
SS02-2	92352367
SS03-1	92352368
SS03-2	92352369
SS04-1	92352370
SS04-2	92352371
SS05-1	92352372
SS05-2	92352373
SS06-1	92352374
SS06-2	92352375
SS07-1	92352376
SS07-2	92352377

ENVIRONMENTAL SERVICE ASSISTANCE TEAMS - ZONE 2

RECEIVED
OCT 26 1992
URS CONSULTANTS

ICF Technology Inc.
ManTech Environmental

ESAT Region 10
ICF Technology Inc.
7411 Beach Drive East
Port Orchard, WA 98366
Phone (206) 871-0748
FAX (206) 895-4357

DCL#: 62760 05 . 162 1992
FILE NO. 15.61
CC:
PM DPM SM X C/SM FILE X

MEMORANDUM

DATE: October 9, 1992

TO: Monica Rolluda, Site Assessment Manager, USEPA, Region 10
Isa Chamberlain, Task Monitor, USEPA, Region 10 Rvwed 10/20/92 @.
Gerald Muth, RPO, USEPA, Region 10

THRU: Barry Pepich, ETM, ESAT, Region 10

FROM: John Alexander, Chemist, ESAT, Region 10

SUBJ: Metals Analysis for Avery Railroad Dump and Roundhouse Soil Samples 92352358 - 77

cc: Bruce Woods, QA Office, USEPA, Region 10
Kara Steward, URS Consultants, Seattle, WA

TID No.: 10-9209-205
Doc. No.: ESAT-10A-5516

The following is a quality assurance data review of the trace metal analysis for Avery Railroad Dump and Roundhouse Soil Samples 92352358-77. All analyses were performed at the Manchester Laboratory.

The project code for these samples is TEC-575A. The superfund account code is 2TFA10PUZZ.

I. Timeliness

Samples 92352358-77 were collected on 8/25/92 and 8/26/92 and received on 8/28/92. Mercury analysis was performed on 9/04/92. The trace metals analysis was completed by 10/06/92.

Suggested holding times were not exceeded. Qualification was not necessary.

II. Sample Preparation

Samples were prepared on 9/11/92, 9/16/92, and 9/24/92 for ICP-AES and GFAA analysis using a microwave digestion, EPA Method 3051. Oily samples were inspected after initial digestion and heated for longer periods when necessary to break up any remaining residue. The sample appearance was classified in two general categories. One group was light in color containing mostly sandy-type particles. The other group was darker in color, ranging from moderate to very oily in appearance. The following is a table of the sample classification:

Light Color, sandy	92352366, 92352367, 92352370, 92352371, 92352374, 92352376
Dark Color, oily	92352358, 92352359, 92352360, 92352361, 92352362, 92352363, 92352364, 92352365, 92352368, 92352369, 92352372, 92352373, 92352375, 92352377

The samples were prepared for mercury analysis on 9/03/92 using Method EP1-245.5.

III. Calibration

The samples were analyzed by ICP-AES (Inductively Coupled Argon Plasma -Atomic Emission Spectroscopy) on 09/24/92, 10/04/92, 10/05/92 and 10/06/92. The instrument was standardized with a blank and a series of standards.

The samples were analyzed by GFAA (Graphite Furnace Atomic Absorption Spectroscopy) on 9/19/92 and 9/21/92. The instrument was calibrated each day with a blank and four standards. Correlation coefficients were all above the minimum value of 0.995.

The samples were analyzed by CVAA (Cold Vapor Atomic Absorption Spectroscopy) for mercury on 9/04/92. A blank and 6 standards were used to calibrate the analytical instrument. The curve was linear with a correlation coefficient of 0.999.

IV. Reference Control Samples

Control samples are required before and after sample analysis and after every 10 samples during analysis. The acceptance range for ICP-AES and GFAA analyses for each element is 90 - 110% of the known value in the control sample. The acceptance range for CVAA is 80 - 120%.

All samples reported had verified reference control parameters within range on each day of analysis.

V. Blanks

Procedural blanks are prepared with each group of samples digested to detect possible introduction of contamination. If analytes are found in any of the associated procedural blanks the concentration in the samples must be at least ten times (10X) the quantity observed in the blank. If the sample result fails this criteria the sample result is qualified (B).

Sodium was found in the procedural blanks and the sample results failed to meet minimum criteria. Sodium results in all samples were qualified (B) denoting possible contamination.

All other analyte results exceeded minimum criteria and therefore no further qualification was necessary.

VI. ICP-AES Interference Check Sample

The interference check sample (ICS) is analyzed by ICP-AES to verify interelement and background correction factors. Analysis is required at the beginning and end of each analytical sequence. The acceptance criteria for the ICS is 80% - 120%.

All parameters were within limits on the analysis dates. No qualification was necessary.

VII. Matrix Spike Analysis

Matrix spike sample analyses are performed to provide information about the effect of the sample matrix on digestion and measurement methods. Matrix spike recoveries are required to be within 75% - 125% of the spike after digestion, analytical post spikes (spiked after digestion) are required to be within 85% - 115% of the spike.

Antimony exhibited low recoveries in all matrix spike samples. Post spike analysis was performed and recoveries were also low. This is typical for antimony and is due to the inefficiency of the digestion method. Antimony results were qualified (N) to notify the data user of poor spike performance.

Silver recoveries were acceptable in 92352358 MS/MSD (76.4%, 76.0%), were low in 92352361 MS/MSD (67.4%, 70.1%), and were mixed in 92352366 (79.8%, 67.3%). Post spike recoveries were only slightly below minimum criteria in 92352361 and 92352366 (82.6%, 82.8%). The results for silver in samples associated with 92352361 were qualified (N) to denote the low spike recoveries.

Thallium recoveries were low in all matrix spike samples therefore all sample results were qualified (N).

Mercury recoveries in sample 92352369 MS/MSD were low (53%, 62%). This

was the only set of matrix spikes performed for these samples therefore all mercury results were qualified (N).

Selenium recoveries were low in 92352366 MS/MSD (70%, 70%) and therefore results in associated samples were qualified (N).

Lead exhibited poor matrix spike performance in 92352366 MS/MSD but this was due to a lack of homogeneity in the samples. This is explained in more detail in Section X.

The remaining spiked values were within the specified limits therefore no further qualification was necessary.

VIII. Furnace Atomic Absorption QC

A post spike is performed on each sample analyzed by GFAA to help determine if interferences are affecting the analyte signal. The post spike should fall within 85% to 115% of the expected value. If a post spike is outside the accepted limits, and the sample concentration is greater than 50% of the post spike added, the sample is analyzed by the Method of Standard Additions (MSA). When MSA is used to quantitate the sample result, the (S) qualifier is attached if the corresponding curve has a correlation coefficient greater than 0.995, a (+) qualifier is attached if the curve is less than 0.995. If a post spike is outside the accepted limits, and the sample concentration is less than 50% of the post spike added, the sample result is reported and a (W) qualifier is attached.

Post spike analysis was performed on all samples analyzed for selenium and thallium by GFAA. The selenium recoveries in samples 92352359, 92352366 DUP, and 92352374 were low. The thallium recovery in sample 92352363 DUP was low. The results for selenium and thallium in the specified samples were qualified (W) to denote the low post spike recoveries.

IX. ICP-AES Serial Dilution

All samples were diluted five-fold for serial dilution analysis. The analyte concentrations which exceeded 50 times the instrument detection limit in the original sample were qualified (E) if the dilution result did not compare within 10% of the original. The (E) indicates possible physical interferences may be present.

The following required qualification based on serial dilution criteria: calcium, zinc - 92352358; copper - 92352359; copper - 92352360; barium, vanadium, zinc - 92352361; copper - 92352366 DUP; calcium, iron, magnesium, manganese, vanadium, zinc - 92352374; calcium, lead, nickel, zinc - 92352375; calcium, zinc - 92352377.

X. Duplicate Analysis

Duplicate analysis of a sample is performed to determine the precision of the digestion and analytical methods. The results for each sample should compare within 20% relative difference.

Because of the oily nature of the matrix, it was difficult to obtain representative

portions of these samples in all cases. The samples underwent drying, particle reduction, and sieving in order to produce the best homogeneous mix possible. In the case of most analytes, these extra procedures helped to produce results with good precision. Lead was the only analyte which demonstrated consistently poor precision and in one case, the relative percent difference between sample 92352366 and the duplicate was 140%. The data was not qualified under laboratory guidelines but the data user should make note of possible lack of precision in lead results.

XI. Detection Limits

Sample results which fall below the instrument detection limit (IDL) are reported at the instrument detection limit and qualified (U). Any sample result falling between the detection limit and the quantitation limit are qualified as an estimate (P). This was implemented to notify the data user that the element was detected, but not within the limits of precision of 10% relative standard deviation.

XII. Data Summary

The results for the Avery Soil samples analysis are of good quality despite the complex matrix of these samples. Results qualified (U) were not detected above the laboratory's instrument detection limit. Results qualified (P) were detected but below the laboratory's minimum quantitation limit. The remaining results were not qualified with the following exceptions:

Sodium results in all samples were qualified (B) denoting possible contamination.

Antimony, mercury, and thallium results were qualified (N) in all samples to notify the data user of poor spike performance.

Silver results in samples 92352360, 61-65, 68, 69, 72, 73, 75, and 77 were qualified (N) to denote the low spike recoveries.

Selenium results in samples 92352366, 67, 70, 71, 74, and 76 were qualified (N) due to low spike recoveries.

Selenium was qualified (W) in samples 92352359, 92352366 DUP, and 92352374 due to low post spike recoveries in GFAA analysis.

Thallium was qualified (W) in sample 92352363 DUP also due to low post spike recoveries in GFAA analysis.

The following required qualification, (E), based on serial dilution criteria: calcium, zinc - 92352358; copper - 92352359; copper - 92352360; barium, vanadium, zinc - 92352361; copper - 92352366 DUP; calcium, iron, magnesium, manganese, sodium, vanadium, zinc - 92352374; calcium, lead, nickel, zinc - 92352375; calcium, sodium, zinc - 92352377.

USEPA Region 10 Laboratory

Below are the definitions for the qualifiers used in the metals area when qualifying data from metals analysis.

DATA QUALIFIERS

U	-	Element was analyzed but not detected. The associated numerical value is the instrument detection limit/method detection limit.
P	-	The analyte was detected above the Instrument Detection Limit, but not quantified within expected limits of precision. The laboratory has established minimum quantitation limits having a relative standard deviation of no more than 10%
E	-	The reported value is an estimate because of the presence of interference. An explanatory note is included with the report.
B	-	Analyte is found in the analytical blank as well as the sample indicating possible/probable blank contamination. (B) accompanies those analytical results within 10 (10X) times the Instrument Detection Limit for the analyte of interest.
N	-	Spiked sample recovery not within control limits.
NAR	-	There is no analysis result for this analyte.
NA	-	Not Applicable/Not Required.
S	-	Sample was analyzed by method of standard additions.
+	-	Sample was analyzed by method of standard additions and the correlation coefficient was less than 0.995.
*	-	The analyte was present in the sample.
W	-	Post spike out of specified range, and sample was less than 50% the spike added.

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: PA10PU2Z

Laboratory: EPA, Manchester

Sample No: 92 352358 Description: ORS01 Source: Sludge (Waste Pond)

Begin Date: 92/08/25 12:00

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	1200E*	mg/kg-dr
Mgnesium	Mg-Sedmt	2870 *	mg/kg-dr
Sodium	Na-Sedmt	152B*	mg/kg-dr
Potesium	K -Sedmt	649 *	mg/kg-dr
Arsenic	As-Sedmt	11.0P*	mg/kg-dr
Barium	Ba-Sedmt	31.1 *	mg/kg-dr
Berylium	Be-Sedmt	0.36P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.20U	mg/kg-dr
Chromium	Cr-Sedmt	6.24 *	mg/kg-dr
Cobalt	Co-Sedmt	4.30 *	mg/kg-dr
Copper	Cu-Sedmt	121 *	mg/kg-dr
Lead	Pb-Sedmt	37.3 *	mg/kg-dr
Mangnese	Mn-Sedmt	112 *	mg/kg-dr
Nickel	Ni-Sedmt	14.4 *	mg/kg-dr
Silver	Ag-Sedmt	1.78 *	mg/kg-dr
Vanadium	V -Sedmt	23.6 *	mg/kg-dr
Zinc	Zn-Sedmt	47.3E*	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	4680 *	mg/kg-dr
Iron	Fe-Sedmt	10300 *	mg/kg-dr

Metals - ICP Scan Matrix Spike #1		Sediment Result	Units
Calcium	Ca-Sedmt	NAR	% Recov
Mgnesium	Mg-Sedmt	NAR	% Recov
Sodium	Na-Sedmt	NAR	% Recov
Potesium	K -Sedmt	NAR	% Recov
Arsenic	As-Sedmt	88.5	% Recov
Barium	Ba-Sedmt	96.2	% Recov
Berylium	Be-Sedmt	108.4	% Recov
Cadmium	Cd-Sedmt	83.6	% Recov
Chromium	Cr-Sedmt	90.0	% Recov
Cobalt	Co-Sedmt	89.3	% Recov
Copper	Cu-Sedmt	81.0	% Recov
Lead	Pb-Sedmt	78.4	% Recov

Metals - ICP Scan *** Continued *** Matrix Spike #1		Sediment Result	Units
Mangnese	Mn-Sedmt	98.5	% Recov
Nickel	Ni-Sedmt	89.8	% Recov
Silver	Ag-Sedmt	76.4	% Recov
Vanadium	V -Sedmt	92.1	% Recov
Zinc	Zn-Sedmt	81.5	% Recov
Antimony	Sb-Sedmt	33.7	% Recov
Aluminum	Al-Sedmt	NAR	% Recov
Selenium	Se-Sedmt	101.0	% Recov
Iron	Fe-Sedmt	NAR	% Recov
Thallium	Tl-Sedmt	92.0	% Recov

Metals - ICP Scan Matrix Spike #2		Sediment Result	Units
Calcium	Ca-Sedmt	NAR	% Recov
Mgnesium	Mg-Sedmt	NAR	% Recov
Sodium	Na-Sedmt	NAR	% Recov
Potesium	K -Sedmt	NAR	% Recov
Arsenic	As-Sedmt	90.1	% Recov
Barium	Ba-Sedmt	97.9	% Recov
Berylium	Be-Sedmt	110.4	% Recov
Cadmium	Cd-Sedmt	85.7	% Recov
Chromium	Cr-Sedmt	91.9	% Recov
Cobalt	Co-Sedmt	91.4	% Recov
Copper	Cu-Sedmt	72.6	% Recov
Lead	Pb-Sedmt	80.6	% Recov
Mangnese	Mn-Sedmt	80.5	% Recov
Nickel	Ni-Sedmt	91.8	% Recov
Silver	Ag-Sedmt	76.0	% Recov
Vanadium	V -Sedmt	93.7	% Recov
Zinc	Zn-Sedmt	81.3	% Recov
Antimony	Sb-Sedmt	36.4	% Recov
Aluminum	Al-Sedmt	NAR	% Recov
Selenium	Se-Sedmt	102.1	% Recov
Iron	Fe-Sedmt	NAR	% Recov
Thallium	Tl-Sedmt	94.6	% Recov

Metals - ICP Scan Duplicate #1		Sediment Result	Units
Calcium	Ca-Sedmt	1130 *	mg/kg-dr
Mgnesium	Mg-Sedmt	2780 *	mg/kg-dr
Sodium	Na-Sedmt	111B*	mg/kg-dr
Potesium	K -Sedmt	666 *	mg/kg-dr
Arsenic	As-Sedmt	9.00P*	mg/kg-dr
Barium	Ba-Sedmt	26.0 *	mg/kg-dr
Berylium	Be-Sedmt	0.33P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.17U	mg/kg-dr
Chromium	Cr-Sedmt	5.73 *	mg/kg-dr
Cobalt	Co-Sedmt	3.77 *	mg/kg-dr
Copper	Cu-Sedmt	107 *	mg/kg-dr
Lead	Pb-Sedmt	30.6 *	mg/kg-dr
Mangnese	Mn-Sedmt	99.4 *	mg/kg-dr
Nickel	Ni-Sedmt	12.7 *	mg/kg-dr
Silver	Ag-Sedmt	1.65 *	mg/kg-dr
Vanadium	V -Sedmt	22.2 *	mg/kg-dr
Zinc	Zn-Sedmt	37.2 *	mg/kg-dr
Antimony	Sb-Sedmt	2.5UN	mg/kg-dr
Aluminum	Al-Sedmt	4550 *	mg/kg-dr
Iron	Fe-Sedmt	9770 *	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: M2R Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352359 Description: ORS02 Source: Sludge (Waste Pond)

Begin Date: 92/08/25 12:00

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.21PW*	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.046N*	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	1300 *	mg/kg-dr
Magnesium	Mg-Sedmt	3130 *	mg/kg-dr
Sodium	Na-Sedmt	248B*	mg/kg-dr
Potassium	K -Sedmt	816 *	mg/kg-dr
Arsenic	As-Sedmt	11.0P*	mg/kg-dr
Barium	Ba-Sedmt	30.7 *	mg/kg-dr
Beryllium	Be-Sedmt	0.38P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.56P*	mg/kg-dr
Chromium	Cr-Sedmt	6.18 *	mg/kg-dr
Cobalt	Co-Sedmt	4.11 *	mg/kg-dr
Copper	Cu-Sedmt	82.0E*	mg/kg-dr
Lead	Pb-Sedmt	20.6 *	mg/kg-dr
Manganese	Mn-Sedmt	94.2 *	mg/kg-dr
Nickel	Ni-Sedmt	15.3 *	mg/kg-dr
Silver	Ag-Sedmt	2.13 *	mg/kg-dr
Vanadium	V -Sedmt	23.0 *	mg/kg-dr
Zinc	Zn-Sedmt	87.2 *	mg/kg-dr
Antimony	Sb-Sedmt	2.9UN	mg/kg-dr
Aluminum	Al-Sedmt	3520 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	12000 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

Metals - ICP Scan Duplicate #1		Sediment Result	Units
Calcium	Ca-Sedmt	1340 *	mg/kg-dr
Magnesium	Mg-Sedmt	3200 *	mg/kg-dr
Sodium	Na-Sedmt	244B*	mg/kg-dr
Potassium	K -Sedmt	826 *	mg/kg-dr
Arsenic	As-Sedmt	11.0P*	mg/kg-dr
Barium	Ba-Sedmt	31.2 *	mg/kg-dr
Beryllium	Be-Sedmt	0.37P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.22U	mg/kg-dr
Chromium	Cr-Sedmt	6.61 *	mg/kg-dr
Cobalt	Co-Sedmt	5.04 *	mg/kg-dr

Metals - ICP Scan *** Continued *** Duplicate #1		Sediment Result	Units
Copper	Cu-Sedmt	120 *	mg/kg-dr
Lead	Pb-Sedmt	24.5 *	mg/kg-dr
Manganese	Mn-Sedmt	94.7 *	mg/kg-dr
Nickel	Ni-Sedmt	13.1 *	mg/kg-dr
Silver	Ag-Sedmt	1.98 *	mg/kg-dr
Vanadium	V -Sedmt	24.1 *	mg/kg-dr
Zinc	Zn-Sedmt	75.9 *	mg/kg-dr
Antimony	Sb-Sedmt	3.2UN	mg/kg-dr
Aluminum	Al-Sedmt	5470 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	11400 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: PA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352360 Description: SS001 Source: Sediment (General)

Begin Date: 92/08/25 12:30

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	1160 *	mg/kg-dr
Mgnsium	Mg-Sedmt	45.30 *	mg/kg-dr
Sodium	Na-Sedmt	368B*	mg/kg-dr
Potasium	K -Sedmt	812 *	mg/kg-dr
Arsenic	As-Sedmt	23.0 *	mg/kg-dr
Barium	Ba-Sedmt	27.6 *	mg/kg-dr
Berylium	Be-Sedmt	0.29P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.28P*	mg/kg-dr
Chromium	Cr-Sedmt	7.22 *	mg/kg-dr
Cobalt	Co-Sedmt	9.60 *	mg/kg-dr
Copper	Cu-Sedmt	27.5E*	mg/kg-dr
Lead	Pb-Sedmt	25.4 *	mg/kg-dr
Mangnesa	Mn-Sedmt	203 *	mg/kg-dr
Nickel	Ni-Sedmt	12.7 *	mg/kg-dr
Silver	Ag-Sedmt	3.33N*	mg/kg-dr
Vanadium	V -Sedmt	14.8 *	mg/kg-dr
Zinc	Zn-Sedmt	47.9 *	mg/kg-dr
Antimony	Sb-Sedmt	2.9UN	mg/kg-dr
Aluminum	Al-Sedmt	7380 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	18800 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352361 Description: SS002 Source: Sediment (General)

Begin Date: 92/08/25 11:00

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	1340 *	mg/kg-dr
Magnesium	Mg-Sedmt	4150 *	mg/kg-dr
Sodium	Na-Sedmt	393B*	mg/kg-dr
Potassium	K -Sedmt	916 *	mg/kg-dr
Arsenic	As-Sedmt	17.2 *	mg/kg-dr
Barium	Ba-Sedmt	33.8E*	mg/kg-dr
Beryllium	Be-Sedmt	0.34P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.20U	mg/kg-dr
Chromium	Cr-Sedmt	7.46 *	mg/kg-dr
Cobalt	Co-Sedmt	5.95 *	mg/kg-dr
Copper	Cu-Sedmt	42.0 *	mg/kg-dr
Lead	Pb-Sedmt	36.5 *	mg/kg-dr
Manganese	Mn-Sedmt	167 *	mg/kg-dr
Nickel	Ni-Sedmt	12.0 *	mg/kg-dr
Silver	Ag-Sedmt	3.02N*	mg/kg-dr
Vanadium	V -Sedmt	18.4E*	mg/kg-dr
Zinc	Zn-Sedmt	52.1E*	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	6440 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	16300 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

Metals - ICP Scan Matrix Spike #1		Sediment Result	Units
Calcium	Ca-Sedmt	NAR	% Recov
Magnesium	Mg-Sedmt	NAR	% Recov
Sodium	Na-Sedmt	NAR	% Recov
Potassium	K -Sedmt	NAR	% Recov
Arsenic	As-Sedmt	80.0	% Recov
Barium	Ba-Sedmt	92.5	% Recov
Beryllium	Be-Sedmt	103.5	% Recov
Cadmium	Cd-Sedmt	76.9	% Recov
Chromium	Cr-Sedmt	86.3	% Recov
Cobalt	Co-Sedmt	85.3	% Recov

Metals - ICP Scan *** Continued *** Matrix Spike #1		Sediment Result	Units
Copper	Cu-Sedmt	85.9	% Recov
Lead	Pb-Sedmt	78.5	% Recov
Manganese	Mn-Sedmt	83.3	% Recov
Nickel	Ni-Sedmt	83.3	% Recov
Silver	Ag-Sedmt	67.4	% Recov
Vanadium	V -Sedmt	84.7	% Recov
Zinc	Zn-Sedmt	78.2	% Recov
Antimony	Sb-Sedmt	26.5	% Recov
Aluminum	Al-Sedmt	NAR	% Recov
Selenium	Se-Sedmt	NAR	% Recov
Iron	Fe-Sedmt	NAR	% Recov
Thallium	Tl-Sedmt	NAR	% Recov

Metals - ICP Scan Matrix Spike #2		Sediment Result	Units
Calcium	Ca-Sedmt	NAR	mg/kg
Magnesium	Mg-Sedmt	NAR	mg/kg
Sodium	Na-Sedmt	NAR	mg/kg
Potassium	K -Sedmt	NAR	mg/kg
Arsenic	As-Sedmt	79.7	mg/kg
Barium	Ba-Sedmt	93.2	mg/kg
Beryllium	Be-Sedmt	103.6	mg/kg
Cadmium	Cd-Sedmt	77.6	mg/kg
Chromium	Cr-Sedmt	85.0	mg/kg
Cobalt	Co-Sedmt	85.2	mg/kg
Copper	Cu-Sedmt	97.6	mg/kg
Lead	Pb-Sedmt	80.4	mg/kg
Manganese	Mn-Sedmt	99.1	mg/kg
Nickel	Ni-Sedmt	84.3	mg/kg
Silver	Ag-Sedmt	70.1	mg/kg
Vanadium	V -Sedmt	83.8	mg/kg
Zinc	Zn-Sedmt	78.1	mg/kg
Antimony	Sb-Sedmt	29.5	mg/kg
Aluminum	Al-Sedmt	NAR	mg/kg
Selenium	Se-Sedmt	NAR	mg/kg
Iron	Fe-Sedmt	NAR	mg/kg
Thallium	Tl-Sedmt	NAR	mg/kg

Metals - ICP Scan Duplicate #1		Sediment Result	Units
Calcium	Ca-Sedmt	1380 *	mg/kg-dr
Magnesium	Mg-Sedmt	4370 *	mg/kg-dr
Sodium	Na-Sedmt	380B*	mg/kg-dr
Potassium	K -Sedmt	999 *	mg/kg-dr
Arsenic	As-Sedmt	15.6 *	mg/kg-dr
Barium	Ba-Sedmt	35.5 *	mg/kg-dr
Beryllium	Be-Sedmt	0.33P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.21P*	mg/kg-dr
Chromium	Cr-Sedmt	7.61 *	mg/kg-dr
Cobalt	Co-Sedmt	5.45 *	mg/kg-dr
Copper	Cu-Sedmt	49.2 *	mg/kg-dr
Lead	Pb-Sedmt	32.7 *	mg/kg-dr
Manganese	Mn-Sedmt	170 *	mg/kg-dr
Nickel	Ni-Sedmt	13.1 *	mg/kg-dr
Silver	Ag-Sedmt	3.11N*	mg/kg-dr
Vanadium	V -Sedmt	18.6 *	mg/kg-dr
Zinc	Zn-Sedmt	59.4 *	mg/kg-dr
Antimony	Sb-Sedmt	3.1PN*	mg/kg-dr
Aluminum	Al-Sedmt	6910 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	16800 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352362 Description: SS003 Source: Sediment (General)

Begin Date: 92/08/25 10:25

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	1470 *	mg/kg-dr
Mgnsium	Mg-Sedmt	3590 *	mg/kg-dr
Sodium	Na-Sedmt	371B*	mg/kg-dr
Potesium	K -Sedmt	849 *	mg/kg-dr
Arsenic	As-Sedmt	11.0P*	mg/kg-dr
Barium	Ba-Sedmt	31.3 *	mg/kg-dr
Berylium	Be-Sedmt	0.26P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.20U	mg/kg-dr
Chromium	Cr-Sedmt	6.39 *	mg/kg-dr
Cobalt	Co-Sedmt	6.08 *	mg/kg-dr
Copper	Cu-Sedmt	17.0 *	mg/kg-dr
Lead	Pb-Sedmt	9.2P*	mg/kg-dr
Mangnese	Mn-Sedmt	264 *	mg/kg-dr
Nickel	Ni-Sedmt	8.45 *	mg/kg-dr
Silver	Ag-Sedmt	2.50N*	mg/kg-dr
Vanadium	V -Sedmt	11.5 *	mg/kg-dr
Zinc	Zn-Sedmt	40.2 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	584D *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	13200 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352363 Description: SS004 Source: Sediment (General)

Begin Date: 92/08/25 11:30

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.023N*	mg/kg-wt

Metals - Specified Matrix Spike #1		Sediment Result	Units
Selenium	Se-Sedmt	83.4	% Recov
Thallium	Tl-Sedmt	73.0	% Recov

Metals - Specified Matrix Spike #2		Sediment Result	Units
Selenium	Se-Sedmt	83.2	% Recov
Thallium	Tl-Sedmt	73.4	% Recov

Metals - Specified Duplicate #1		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UNW	mg/kg-dr

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	1800 *	mg/kg-dr
Magnesium	Mg-Sedmt	4010 *	mg/kg-dr
Sodium	Na-Sedmt	422B*	mg/kg-dr
Potassium	K -Sedmt	792 *	mg/kg-dr
Arsenic	As-Sedmt	24.1 *	mg/kg-dr
Barium	Ba-Sedmt	36.7 *	mg/kg-dr
Beryllium	Be-Sedmt	0.35P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.38P*	mg/kg-dr
Chromium	Cr-Sedmt	8.62 *	mg/kg-dr
Cobalt	Co-Sedmt	6.03 *	mg/kg-dr
Copper	Cu-Sedmt	107 *	mg/kg-dr
Lead	Pb-Sedmt	165 *	mg/kg-dr
Manganese	Mn-Sedmt	164 *	mg/kg-dr
Nickel	Ni-Sedmt	15.2 *	mg/kg-dr
Silver	Ag-Sedmt	3.36N*	mg/kg-dr
Vanadium	V -Sedmt	25.5 *	mg/kg-dr

Metals - ICP Scan *** Continued ***		Sediment Result	Units
Zinc	Zn-Sedmt	63.9 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	6340 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	17900 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

Metals - ICP Scan Duplicate #1		Sediment Result	Units
Calcium	Ca-Sedmt	1660 *	mg/kg-dr
Magnesium	Mg-Sedmt	3910 *	mg/kg-dr
Sodium	Na-Sedmt	535B*	mg/kg-dr
Potassium	K -Sedmt	902 *	mg/kg-dr
Arsenic	As-Sedmt	23.1 *	mg/kg-dr
Barium	Ba-Sedmt	36.0 *	mg/kg-dr
Beryllium	Be-Sedmt	0.34P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.43P*	mg/kg-dr
Chromium	Cr-Sedmt	8.66 *	mg/kg-dr
Cobalt	Co-Sedmt	5.90 *	mg/kg-dr
Copper	Cu-Sedmt	127 *	mg/kg-dr
Lead	Pb-Sedmt	104 *	mg/kg-dr
Manganese	Mn-Sedmt	162 *	mg/kg-dr
Nickel	Ni-Sedmt	15.3 *	mg/kg-dr
Silver	Ag-Sedmt	3.49N*	mg/kg-dr
Vanadium	V -Sedmt	24.7 *	mg/kg-dr
Zinc	Zn-Sedmt	75.1 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	6110 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	19000 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Sample Complete)

Project: TRC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: PA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352364 Description: SS01-1 Source: Sediment (General)

Begin Date: 92/08/26 11:10

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.065N*	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	4220 *	mg/kg-dr
Magnesium	Mg-Sedmt	2720 *	mg/kg-dr
Sodium	Na-Sedmt	666B*	mg/kg-dr
Potassium	K -Sedmt	948 *	mg/kg-dr
Arsenic	As-Sedmt	18.5 *	mg/kg-dr
Barium	Ba-Sedmt	145 *	mg/kg-dr
Beryllium	Be-Sedmt	0.46P*	mg/kg-dr
Cadmium	Cd-Sedmt	1.58 *	mg/kg-dr
Chromium	Cr-Sedmt	16.1 *	mg/kg-dr
Cobalt	Co-Sedmt	5.97 *	mg/kg-dr
Copper	Cu-Sedmt	180 *	mg/kg-dr
Lead	Pb-Sedmt	235 *	mg/kg-dr
Manganese	Mn-Sedmt	326 *	mg/kg-dr
Nickel	Ni-Sedmt	16.6 *	mg/kg-dr
Silver	Ag-Sedmt	5.02N*	mg/kg-dr
Vanadium	V -Sedmt	21.5 *	mg/kg-dr
Zinc	Zn-Sedmt	187 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	5500 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	20200 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: RPA, Manchester

Sample No: 92 352365 Description: SS01-2 Source: Sediment (General)

Begin Date: 92/08/26 11:10

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.12N*	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	3250 *	mg/kg-dr
Magnesium	Mg-Sedmt	2580 *	mg/kg-dr
Sodium	Na-Sedmt	559B*	mg/kg-dr
Potassium	K -Sedmt	437 *	mg/kg-dr
Arsenic	As-Sedmt	10.0P*	mg/kg-dr
Barium	Ba-Sedmt	148 *	mg/kg-dr
Beryllium	Be-Sedmt	0.43P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.39P*	mg/kg-dr
Chromium	Cr-Sedmt	11.8 *	mg/kg-dr
Cobalt	Co-Sedmt	4.74 *	mg/kg-dr
Copper	Cu-Sedmt	225 *	mg/kg-dr
Lead	Pb-Sedmt	211 *	mg/kg-dr
Manganese	Mn-Sedmt	264 *	mg/kg-dr
Nickel	Ni-Sedmt	15.9 *	mg/kg-dr
Silver	Ag-Sedmt	3.53N*	mg/kg-dr
Vanadium	V -Sedmt	20.4 *	mg/kg-dr
Zinc	Zn-Sedmt	65.8 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	4180 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	18700 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352366 Description: SS02-1 Source: Sediment (General)

Begin Date: 92/08/26 11:35

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20UN	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - Specified Matrix Spike #1		Sediment Result	Units
Selenium	Se-Sedmt	69.6	% Recov
Thallium	Tl-Sedmt	68.8	% Recov

Metals - Specified Matrix Spike #2		Sediment Result	Units
Selenium	Se-Sedmt	69.6	% Recov
Thallium	Tl-Sedmt	68.4	% Recov

Metals - Specified Duplicate #1		Sediment Result	Units
Selenium	Se-Sedmt	0.20UN	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	2910 *	mg/kg-dr
Magnesium	Mg-Sedmt	12600 *	mg/kg-dr
Sodium	Na-Sedmt	4018*	mg/kg-dr
Potassium	K -Sedmt	2740 *	mg/kg-dr
Arsenic	As-Sedmt	36.4 *	mg/kg-dr
Barium	Ba-Sedmt	76.3 *	mg/kg-dr
Beryllium	Be-Sedmt	0.836 *	mg/kg-dr
Cadmium	Cd-Sedmt	0.32P*	mg/kg-dr
Chromium	Cr-Sedmt	13.2 *	mg/kg-dr
Cobalt	Co-Sedmt	8.92 *	mg/kg-dr
Copper	Cu-Sedmt	17.8 *	mg/kg-dr
Lead	Pb-Sedmt	394 *	mg/kg-dr
Manganese	Mn-Sedmt	653 *	mg/kg-dr
Nickel	Ni-Sedmt	15.1 *	mg/kg-dr
Silver	Ag-Sedmt	4.33 *	mg/kg-dr
Vanadium	V -Sedmt	19.8 *	mg/kg-dr

Metals - ICP Scan *** Continued ***		Sediment Result	Units
Zinc	Zn-Sedmt	24.6 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	14700 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	22900 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

Metals - ICP Scan Matrix Spike #1		Sediment Result	Units
Calcium	Ca-Sedmt	NAR	% Recov
Magnesium	Mg-Sedmt	NAR	% Recov
Sodium	Na-Sedmt	NAR	% Recov
Potassium	K -Sedmt	NAR	% Recov
Arsenic	As-Sedmt	91.9	% Recov
Barium	Ba-Sedmt	104.0	% Recov
Beryllium	Be-Sedmt	119.3	% Recov
Cadmium	Cd-Sedmt	90.4	% Recov
Chromium	Cr-Sedmt	98.2	% Recov
Cobalt	Co-Sedmt	96.8	% Recov
Copper	Cu-Sedmt	101.9	% Recov
Lead	Pb-Sedmt	-184.1	% Recov
Manganese	Mn-Sedmt	111.5	% Recov
Nickel	Ni-Sedmt	93.6	% Recov
Silver	Ag-Sedmt	79.8	% Recov
Vanadium	V -Sedmt	99.4	% Recov
Zinc	Zn-Sedmt	86.6	% Recov
Antimony	Sb-Sedmt	14.4	% Recov
Aluminum	Al-Sedmt	NAR	% Recov
Selenium	Se-Sedmt	NAR	% Recov
Iron	Fe-Sedmt	NAR	% Recov
Thallium	Tl-Sedmt	NAR	% Recov

Metals - ICP Scan Matrix Spike #2		Sediment Result	Units
Calcium	Ca-Sedmt	NAR	% Recov
Magnesium	Mg-Sedmt	NAR	% Recov
Sodium	Na-Sedmt	NAR	% Recov
Potassium	K -Sedmt	NAR	% Recov
Arsenic	As-Sedmt	79.8	% Recov
Barium	Ba-Sedmt	93.0	% Recov

Metals - ICP Scan *** Continued *** Matrix Spike #2		Sediment Result	Units
Beryllium	Be-Sedmt	106.0	% Recov
Cadmium	Cd-Sedmt	77.7	% Recov
Chromium	Cr-Sedmt	80.4	% Recov
Cobalt	Co-Sedmt	85.1	% Recov
Copper	Cu-Sedmt	86.9	% Recov
Lead	Pb-Sedmt	-240.6	% Recov
Manganese	Mn-Sedmt	169.1	% Recov
Nickel	Ni-Sedmt	81.9	% Recov
Silver	Ag-Sedmt	67.3	% Recov
Vanadium	V -Sedmt	86.2	% Recov
Zinc	Zn-Sedmt	74.4	% Recov
Antimony	Sb-Sedmt	5.5	% Recov
Aluminum	Al-Sedmt	NAR	% Recov
Selenium	Se-Sedmt	NAR	% Recov
Iron	Fe-Sedmt	NAR	% Recov
Thallium	Tl-Sedmt	NAR	% Recov

Metals - ICP Scan Duplicate #1		Sediment Result	Units
Calcium	Ca-Sedmt	2660 *	mg/kg-dr
Magnesium	Mg-Sedmt	12500 *	mg/kg-dr
Sodium	Na-Sedmt	3688*	mg/kg-dr
Potassium	K -Sedmt	2560 *	mg/kg-dr
Arsenic	As-Sedmt	31.9 *	mg/kg-dr
Barium	Ba-Sedmt	71.7 *	mg/kg-dr
Beryllium	Be-Sedmt	0.792 *	mg/kg-dr
Cadmium	Cd-Sedmt	0.44P*	mg/kg-dr
Chromium	Cr-Sedmt	11.9 *	mg/kg-dr
Cobalt	Co-Sedmt	8.96 *	mg/kg-dr
Copper	Cu-Sedmt	16.2E*	mg/kg-dr
Lead	Pb-Sedmt	70.3 *	mg/kg-dr
Manganese	Mn-Sedmt	578 *	mg/kg-dr
Nickel	Ni-Sedmt	13.7 *	mg/kg-dr
Silver	Ag-Sedmt	3.99 *	mg/kg-dr
Vanadium	V -Sedmt	19.2 *	mg/kg-dr
Zinc	Zn-Sedmt	20.7 *	mg/kg-dr
Antimony	Sb-Sedmt	3.1UN	mg/kg-dr
Aluminum	Al-Sedmt	14300 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	22200 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352367 Description: SS02-2 Source: Sediment (General)

Begin Date: 92/08/26 11:35

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20UN	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	2070 *	mg/kg-dr
Mgnsium	Mg-Sedmt	5260 *	mg/kg-dr
Sodium	Na-Sedmt	451B*	mg/kg-dr
Potassium	K -Sedmt	1370 *	mg/kg-dr
Arsenic	As-Sedmt	68.8 *	mg/kg-dr
Barium	Ba-Sedmt	42.8 *	mg/kg-dr
Berylium	Be-Sedmt	0.502 *	mg/kg-dr
Cadmium	Cd-Sedmt	0.33P*	mg/kg-dr
Chromium	Cr-Sedmt	10.5 *	mg/kg-dr
Cobalt	Co-Sedmt	9.63 *	mg/kg-dr
Copper	Cu-Sedmt	15.1 *	mg/kg-dr
Lead	Pb-Sedmt	25.8 *	mg/kg-dr
Mangnese	Mn-Sedmt	323 *	mg/kg-dr
Nickel	Ni-Sedmt	12.2 *	mg/kg-dr
Silver	Ag-Sedmt	3.67 *	mg/kg-dr
Vanadium	V -Sedmt	13.3 *	mg/kg-dr
Zinc	Zn-Sedmt	15.9 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	8420 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	2030D *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: M2R Account: PA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352368 Description: SS03-1 Source: Sediment (General)

Begin Date: 92/08/26 11:45

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	2520 *	mg/kg-dr
Mgnesium	Mg-Sedmt	2680 *	mg/kg-dr
Sodium	Na-Sedmt	538B*	mg/kg-dr
Potssium	K -Sedmt	601 *	mg/kg-dr
Arsenic	As-Sedmt	9.6P*	mg/kg-dr
Barium	Ba-Sedmt	68.7 *	mg/kg-dr
Berylium	Be-Sedmt	0.28P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.71P*	mg/kg-dr
Chromium	Cr-Sedmt	10.6 *	mg/kg-dr
Cobalt	Co-Sedmt	4.90 *	mg/kg-dr
Copper	Cu-Sedmt	76.6 *	mg/kg-dr
Lead	Pb-Sedmt	87.5 *	mg/kg-dr
Mangnese	Mn-Sedmt	163 *	mg/kg-dr
Nickel	Ni-Sedmt	15.1 *	mg/kg-dr
Silver	Ag-Sedmt	2.25N*	mg/kg-dr
Vanadium	V -Sedmt	18.8 *	mg/kg-dr
Zinc	Zn-Sedmt	100 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	5060 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	12500 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: M2R Account: FA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352369 Description: SS03-2 Source: Sediment (General)

Begin Date: 92/08/26 11:45

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - Specified Matrix Spike #1		Sediment Result	Units
Mercury	Hg-Sedmt	53	% Recov

Metals - Specified Matrix Spike #2		Sediment Result	Units
Mercury	Hg-Sedmt	62	% Recov

Metals - Specified Duplicate #1		Sediment Result	Units
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	1460 *	mg/kg-dr
Magnesium	Mg-Sedmt	2070 *	mg/kg-dr
Sodium	Na-Sedmt	430B*	mg/kg-dr
Potassium	K -Sedmt	240 *	mg/kg-dr
Arsenic	As-Sedmt	5.3P*	mg/kg-dr
Barium	Ba-Sedmt	21.0 *	mg/kg-dr
Beryllium	Be-Sedmt	0.37P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.33P*	mg/kg-dr
Chromium	Cr-Sedmt	8.77 *	mg/kg-dr
Cobalt	Co-Sedmt	4.79 *	mg/kg-dr
Copper	Cu-Sedmt	43.6 *	mg/kg-dr
Lead	Pb-Sedmt	31.0 *	mg/kg-dr
Manganese	Mn-Sedmt	96.0 *	mg/kg-dr
Nickel	Ni-Sedmt	16.9 *	mg/kg-dr
Silver	Ag-Sedmt	1.35N*	mg/kg-dr
Vanadium	V -Sedmt	46.2 *	mg/kg-dr
Zinc	Zn-Sedmt	41.9 *	mg/kg-dr
Antimony	Sb-Sedmt	2.9UN	mg/kg-dr
Aluminum	Al-Sedmt	3880 *	mg/kg-dr

Metals - ICP Scan *** Continued ***		Sediment Result	Units
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	8210 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352370 Description: SS04-1 Source: Sediment (General)

Begin Date: 92/08/26 12:00

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20UN	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.021N*	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	4920 *	mg/kg-dr
Mgnesium	Mg-Sedmt	4680 *	mg/kg-dr
Sodium	Na-Sedmt	616B*	mg/kg-dr
Potassium	K -Sedmt	1710 *	mg/kg-dr
Arsenic	As-Sedmt	21.1 *	mg/kg-dr
Barium	Ba-Sedmt	91.9 *	mg/kg-dr
Berylium	Be-Sedmt	0.42P*	mg/kg-dr
Cadmium	Cd-Sedmt	1.5P*	mg/kg-dr
Chromium	Cr-Sedmt	15.3 *	mg/kg-dr
Cobalt	Co-Sedmt	8.22 *	mg/kg-dr
Copper	Cu-Sedmt	56.0 *	mg/kg-dr
Lead	Pb-Sedmt	60.6 *	mg/kg-dr
Mangnese	Mn-Sedmt	322 *	mg/kg-dr
Nickel	Ni-Sedmt	13.8 *	mg/kg-dr
Silver	Ag-Sedmt	3.28 *	mg/kg-dr
Vanadium	V -Sedmt	16.2 *	mg/kg-dr
Zinc	Zn-Sedmt	196 *	mg/kg-dr
Antimony	Sb-Sedmt	3.7UN	mg/kg-dr
Aluminum	Al-Sedmt	7710 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	17600 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU2Z

Laboratory: EPA, Manchester

Sample No: 92 352371 Description: SS04-2 Source: Sediment (General)

Begin Date: 92/08/26 12:00

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20UN	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.040N*	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	4420 *	mg/kg-dr
Mgnsium	Mg-Sedmt	6410 *	mg/kg-dr
Sodium	Na-Sedmt	665B*	mg/kg-dr
Potassium	K -Sedmt	2490 *	mg/kg-dr
Arsenic	As-Sedmt	40.7 *	mg/kg-dr
Barium	Ba-Sedmt	137 *	mg/kg-dr
Berylium	Be-Sedmt	0.572 *	mg/kg-dr
Cadmium	Cd-Sedmt	0.49P*	mg/kg-dr
Chromium	Cr-Sedmt	10.3 *	mg/kg-dr
Cobalt	Co-Sedmt	9.21 *	mg/kg-dr
Copper	Cu-Sedmt	34.8 *	mg/kg-dr
Lead	Pb-Sedmt	47.8 *	mg/kg-dr
Mangnese	Mn-Sedmt	502 *	mg/kg-dr
Nickel	Ni-Sedmt	13.7 *	mg/kg-dr
Silver	Ag-Sedmt	3.60 *	mg/kg-dr
Vanadium	V -Sedmt	15.3 *	mg/kg-dr
Zinc	Zn-Sedmt	97.8 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	12500 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	19600 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZ2

Laboratory: EPA, Manchester

Sample No: 92 352372 Description: SS05-1 Source: Sediment (General)

Begin Date: 92/08/26 12:10

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Ng-Sedmt	0.02UN	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	2970 *	mg/kg-dr
Mgnsium	Mg-Sedmt	5890 *	mg/kg-dr
Sodium	Na-Sedmt	603B*	mg/kg-dr
Potssium	K -Sedmt	2810 *	mg/kg-dr
Arsenic	As-Sedmt	29.7 *	mg/kg-dr
Barium	Ba-Sedmt	98.4 *	mg/kg-dr
Berylium	Be-Sedmt	0.560 *	mg/kg-dr
Cadmium	Cd-Sedmt	0.35P*	mg/kg-dr
Chromium	Cr-Sedmt	10.5 *	mg/kg-dr
Cobalt	Co-Sedmt	10.2 *	mg/kg-dr
Copper	Cu-Sedmt	34.4 *	mg/kg-dr
Lead	Pb-Sedmt	29.2 *	mg/kg-dr
Mangnese	Mn-Sedmt	491 *	mg/kg-dr
Nickel	Ni-Sedmt	16.0 *	mg/kg-dr
Silver	Ag-Sedmt	4.40N*	mg/kg-dr
Vanadium	V -Sedmt	18.2 *	mg/kg-dr
Zinc	Zn-Sedmt	50.0 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	12700 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	24000 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352373 Description: SS05-2 Source: Sediment (General)

Begin Date: 92/08/26 12:10

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.037N*	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	5400 *	mg/kg-dr
Mgnsium	Mg-Sedmt	3590 *	mg/kg-dr
Sodium	Na-Sedmt	657B*	mg/kg-dr
Potasium	K -Sedmt	1150 *	mg/kg-dr
Arsenic	As-Sedmt	46.5 *	mg/kg-dr
Barium	Ba-Sedmt	247 *	mg/kg-dr
Berylium	Be-Sedmt	0.859 *	mg/kg-dr
Cadmium	Cd-Sedmt	0.58P*	mg/kg-dr
Chromium	Cr-Sedmt	7.94 *	mg/kg-dr
Cobalt	Co-Sedmt	8.17 *	mg/kg-dr
Copper	Cu-Sedmt	123 *	mg/kg-dr
Lead	Pb-Sedmt	225 *	mg/kg-dr
Mangnese	Mn-Sedmt	401 *	mg/kg-dr
Nickel	Ni-Sedmt	23.3 *	mg/kg-dr
Silver	Ag-Sedmt	3.17N*	mg/kg-dr
Vanadium	V -Sedmt	33.6 *	mg/kg-dr
Zinc	Zn-Sedmt	78.4 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	7390 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	17800 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352374 Description: SS06-1 Source: Sediment (General)

Begin Date: 92/08/26 12:30

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20UNW	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	10800E*	mg/kg-dr
Mgnsium	Mg-Sedmt	11000E*	mg/kg-dr
Sodium	Na-Sedmt	468B*	mg/kg-dr
Potssium	K -Sedmt	4800 *	mg/kg-dr
Arsenic	As-Sedmt	39.6 *	mg/kg-dr
Barium	Ba-Sedmt	83.3 *	mg/kg-dr
Berylium	Be-Sedmt	0.795 *	mg/kg-dr
Cadmium	Cd-Sedmt	0.58P*	mg/kg-dr
Chromium	Cr-Sedmt	15.7 *	mg/kg-dr
Cobalt	Co-Sedmt	9.99 *	mg/kg-dr
Copper	Cu-Sedmt	38.3 *	mg/kg-dr
Lead	Pb-Sedmt	61.6 *	mg/kg-dr
Mangnese	Mn-Sadmt	575E*	mg/kg-dr
Nickel	Ni-Sedmt	16.3 *	mg/kg-dr
Silver	Ag-Sedmt	3.39 *	mg/kg-dr
Vanadium	V -Sedmt	17.8E*	mg/kg-dr
Zinc	Zn-Sedmt	75.4E*	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sadmt	13000 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	18200E*	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: PA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352375 Description: SS06-2 Source: Sediment (General)

Begin Date: 92/08/26 12:30

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.45P*	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.58N*	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	4510E*	mg/kg-dr
Mgnsium	Mg-Sedmt	3580 *	mg/kg-dr
Sodium	Na-Sedmt	808B*	mg/kg-dr
Potssium	K -Sedmt	687 *	mg/kg-dr
Arsenic	As-Sedmt	19.9 *	mg/kg-dr
Barium	Ba-Sedmt	298 *	mg/kg-dr
Berylium	Be-Sedmt	1.04 *	mg/kg-dr
Cadmium	Cd-Sedmt	0.81P*	mg/kg-dr
Chromium	Cr-Sedmt	10.1 *	mg/kg-dr
Cobalt	Co-Sedmt	9.85 *	mg/kg-dr
Copper	Cu-Sedmt	383 *	mg/kg-dr
Lead	Pb-Sedmt	533E*	mg/kg-dr
Mangnese	Mn-Sedmt	317 *	mg/kg-dr
Nickel	Ni-Sedmt	71.8E*	mg/kg-dr
Silver	Ag-Sedmt	3.03N*	mg/kg-dr
Vanadium	V -Sedmt	75.2 *	mg/kg-dr
Zinc	Zn-Sedmt	403E*	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	6940 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	17400 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352376 Description: SS07-1 Source: Sediment (General)

Begin Date: 92/08/26 12:10

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20UN	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	3060 *	mg/kg-dr
Mgnsium	Mg-Sedmt	6180 *	mg/kg-dr
Sodium	Na-Sedmt	463B*	mg/kg-dr
Potssium	K -Sedmt	2870 *	mg/kg-dr
Arsenic	As-Sedmt	44.5 *	mg/kg-dr
Barium	Ba-Sedmt	98.6 *	mg/kg-dr
Berylium	Be-Sedmt	0.599 *	mg/kg-dr
Cadmium	Cd-Sedmt	0.29P*	mg/kg-dr
Chromium	Cr-Sedmt	10.8 *	mg/kg-dr
Cobalt	Co-Sedmt	10.2 *	mg/kg-dr
Copper	Cu-Sedmt	31.6 *	mg/kg-dr
Lead	Pb-Sedmt	24.8 *	mg/kg-dr
Mangnese	Mn-Sedmt	491 *	mg/kg-dr
Nickel	Ni-Sedmt	15.3 *	mg/kg-dr
Silver	Ag-Sedmt	4.31 *	mg/kg-dr
Vanadium	V -Sedmt	18.1 *	mg/kg-dr
Zinc	Zn-Sedmt	50.3 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	12600 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	23800 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FAIOPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352377 Description: SSO7-2 Source: Sediment (General)

Begin Date: 92/08/26 12:10

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.46P*	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.057N*	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	8050E*	mg/kg-dr
Mgnesium	Mg-Sedmt	3360 *	mg/kg-dr
Sodium	Na-Sedmt	906B*	mg/kg-dr
Potasium	K -Sedmt	933 *	mg/kg-dr
Arsenic	As-Sedmt	39.9 *	mg/kg-dr
Barium	Ba-Sedmt	597 *	mg/kg-dr
Berylium	Be-Sedmt	1.45 *	mg/kg-dr
Cadmium	Cd-Sedmt	0.51P*	mg/kg-dr
Chromium	Cr-Sedmt	9.94 *	mg/kg-dr
Cobalt	Co-Sedmt	8.58 *	mg/kg-dr
Copper	Cu-Sedmt	184 *	mg/kg-dr
Lead	Pb-Sedmt	292 *	mg/kg-dr
Mangnese	Mn-Sedmt	371 *	mg/kg-dr
Nickel	Ni-Sedmt	33.9 *	mg/kg-dr
Silver	Ag-Sedmt	3.62N*	mg/kg-dr
Vanadium	V -Sedmt	49.1 *	mg/kg-dr
Zinc	Zn-Sedmt	63.7E*	mg/kg-dr
Antimony	Sb-Sedmt	3.DUN	mg/kg-dr
Aluminum	Al-Sedmt	10200 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	20400 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU2Z

Blank ID: BLANK

Metals - Specified Blank #4		Sediment Result	Units
Mercury	Hg-Sedmt	0.02U	mg/kg-wt

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Blank ID: ES920911A

Metals - Specified Blank #1		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: PA1OPUZZ

Blank ID: ES9209l6A

Metals - Specified Blank #2		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr

Metals - ICP Scan Blank #1		Sediment Result	Units
Calcium	Ca-Sedmt	55.8 *	mg/kg-dr
Mgnsium	Mg-Sedmt	3.04 *	mg/kg-dr
Sodium	Na-Sedmt	92.8 *	mg/kg-dr
Potassium	K -Sedmt	40.U	mg/kg-dr
Arsenic	As-Sedmt	3.0U	mg/kg-dr
Barium	Ba-Sedmt	0.17P*	mg/kg-dr
Barylium	Be-Sedmt	0.10U	mg/kg-dr
Cadmium	Cd-Sedmt	0.20U	mg/kg-dr
Chromium	Cr-Sedmt	0.50U	mg/kg-dr
Cobalt	Co-Sedmt	0.30U	mg/kg-dr
Copper	Cu-Sedmt	1.10 *	mg/kg-dr
Lead	Pb-Sedmt	2.0U	mg/kg-dr
Mangnese	Mn-Sedmt	0.10U	mg/kg-dr
Nickel	Ni-Sedmt	1.0U	mg/kg-dr
Silver	Ag-Sedmt	0.30U	mg/kg-dr
Vanadium	V -Sedmt	0.20U	mg/kg-dr
Zinc	Zn-Sedmt	0.68P*	mg/kg-dr
Antimony	Sb-Sedmt	3.0U	mg/kg-dr
Aluminum	Al-Sedmt	2.0U	mg/kg-dr
Selanium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	2.43 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: PA10PUZZ

Blank ID: ES920916B

Metals - ICP Scan Blank #2		Sediment Result	Units
Calcium	Ca-Sedmt	1.21 *	mg/kg-dr
Mgnsium	Mg-Sedmt	0.24P*	mg/kg-dr
Sodium	Na-Sedmt	1.0U	mg/kg-dr
Potassium	K -Sedmt	40.U	mg/kg-dr
Arsenic	As-Sedmt	3.0U	mg/kg-dr
Barium	Ba-Sedmt	0.10U	mg/kg-dr
Berylium	Be-Sedmt	0.10U	mg/kg-dr
Cadmium	Cd-Sedmt	0.20U	mg/kg-dr
Chromium	Cr-Sedmt	0.79P*	mg/kg-dr
Cobalt	Co-Sedmt	0.30U	mg/kg-dr
Copper	Cu-Sedmt	0.44P*	mg/kg-dr
Lead	Pb-Sedmt	2.0U	mg/kg-dr
Mangnese	Mn-Sedmt	0.10U	mg/kg-dr
Nickel	Ni-Sedmt	1.0U	mg/kg-dr
Silver	Ag-Sedmt	0.30U	mg/kg-dr
Vanadium	V -Sedmt	0.20U	mg/kg-dr
Zinc	Zn-Sedmt	0.40U	mg/kg-dr
Antimony	Sb-Sedmt	3.0U	mg/kg-dr
Aluminum	Al-Sedmt	2.0U	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	1.7P*	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU2Z

Blank ID: ES920923

Metals - ICP Scan Blank #1		Sediment Result	Units
Calcium	Ca-Sedmt	86.0 *	mg/kg-dr
Magnesium	Mg-Sedmt	5.20 *	mg/kg-dr
Sodium	Na-Sedmt	205 *	mg/kg-dr
Potassium	K -Sedmt	40.U	mg/kg-dr
Arsenic	As-Sedmt	3.0U	mg/kg-dr
Barium	Ba-Sedmt	0.14P*	mg/kg-dr
Beryllium	Be-Sedmt	0.10U	mg/kg-dr
Cadmium	Cd-Sedmt	0.20U	mg/kg-dr
Chromium	Cr-Sedmt	0.50U	mg/kg-dr
Cobalt	Co-Sedmt	0.30U	mg/kg-dr
Copper	Cu-Sedmt	1.80 *	mg/kg-dr
Lead	Pb-Sedmt	2.0U	mg/kg-dr
Manganese	Mn-Sedmt	0.10U	mg/kg-dr
Nickel	Ni-Sedmt	1.0P*	mg/kg-dr
Silver	Ag-Sedmt	0.30U	mg/kg-dr
Vanadium	V -Sedmt	0.20U	mg/kg-dr
Zinc	Zn-Sedmt	0.84P*	mg/kg-dr
Antimony	Sb-Sedmt	3.0U	mg/kg-dr
Aluminum	Al-Sedmt	2.0U	mg/kg-dr
Selenium	Se-Sedmt	5.0U	mg/kg-dr
Iron	Fe-Sedmt	2.86 *	mg/kg-dr
Thallium	Tl-Sedmt	5.0U	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: PA10PUZZ

Blank ID: ES920924A

Metals - ICP Scan Blank #3		Sediment Result	Units
Calcium	Ca-Sedmt	26.3 *	mg/kg-dr
Mgnsium	Mg-Sedmt	0.98P*	mg/kg-dr
Sodium	Na-Sedmt	3.2P*	mg/kg-dr
Potssium	K -Sedmt	40.U	mg/kg-dr
Arsenic	As-Sedmt	3.0U	mg/kg-dr
Barium	Ba-Sedmt	0.10U	mg/kg-dr
Berylium	Be-Sedmt	0.10U	mg/kg-dr
Cadmium	Cd-Sedmt	0.20U	mg/kg-dr
Chromium	Cr-Sedmt	0.50U	mg/kg-dr
Cobalt	Co-Sedmt	0.30U	mg/kg-dr
Copper	Cu-Sedmt	1.05 *	mg/kg-dr
Lead	Pb-Sedmt	2.0U	mg/kg-dr
Mangnese	Mn-Sedmt	0.10U	mg/kg-dr
Nickel	Ni-Sedmt	1.0U	mg/kg-dr
Silver	Ag-Sedmt	0.30U	mg/kg-dr
Vanadium	V -Sedmt	0.20U	mg/kg-dr
Zinc	Zn-Sedmt	0.40U	mg/kg-dr
Antimony	Sb-Sedmt	3.0U	mg/kg-dr
Aluminum	Al-Sedmt	2.0U	mg/kg-dr
Selenium	Se-Sedmt	5.0U	mg/kg-dr
Iron	Fe-Sedmt	0.79P*	mg/kg-dr
Thallium	Tl-Sedmt	5.0U	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Blank ID: ES920924B

Metals - ICP Scan Blank #4		Sediment Result	Units
Calcium	Ca-Sedmt	6.19 *	mg/kg-dr
Mgnsium	Mg-Sedmt	0.95P*	mg/kg-dr
Sodium	Na-Sedmt	1.0U	mg/kg-dr
Potasium	K -Sedmt	40.U	mg/kg-dr
Arsenic	As-Sedmt	3.0U	mg/kg-dr
Berium	Ba-Sedmt	0.10U	mg/kg-dr
Berylium	Be-Sedmt	0.10U	mg/kg-dr
Cadmium	Cd-Sedmt	0.20U	mg/kg-dr
Chromium	Cr-Sedmt	0.50U	mg/kg-dr
Cobalt	Co-Sedmt	0.30U	mg/kg-dr
Copper	Cu-Sedmt	0.81P*	mg/kg-dr
Lead	Pb-Sedmt	2.0U	mg/kg-dr
Maugnese	Mn-Sedmt	0.10U	mg/kg-dr
Nickel	Ni-Sedmt	1.0U	mg/kg-dr
Silver	Ag-Sedmt	0.30U	mg/kg-dr
Vanadium	V -Sedmt	0.20U	mg/kg-dr
Zinc	Zn-Sedmt	0.40U	mg/kg-dr
Antimony	Sb-Sedmt	3.0U	mg/kg-dr
Aluminum	Al-Sedmt	2.0U	mg/kg-dr
Selenium	Se-Sedmt	5.0U	mg/kg-dr
Iron	Fe-Sedmt	1.9P*	mg/kg-dr
Thallium	Tl-Sedmt	5.0U	mg/kg-dr

(Sample Complete)

DCL#: 62760.0560.165 1992
FILE NO.
CC:
PM DPM SM C/SM FILE

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 BEACH DR. EAST
PORT ORCHARD, WASHINGTON 98366

RECEIVED
OCT 27 1992
URS CONSULTANTS

October 22, 1992

MEMORANDUM

SUBJECT: Data Review of Avery Railroad Dump and Roundhouse Water Samples for Chlorinated Pesticides/PCBs

FROM: R. H. Rieck, Chemist R W. Rieck

TO: Monica Rolluda, Project Officer

The Quality Assurance review of four water samples from Avery Railroad Dump and Roundhouse for Chlorinated Pesticides and PCBs has been completed. Extraction and analysis of the samples were performed by EPA Method 8080.

I. Holding Times:

Acceptable. All samples were collected on 08/26/92 and extracted on 09/01/92. Thus all extractions were performed within the seven day holding time for water.

The sample extracts were analyzed on 10/13/92 which is beyond the usually accepted 40 day holding time for extracts. Since we exceeded the holding time for extracts by only two days and all surrogate spikes and matrix spikes were acceptable, no qualifiers were assigned on this basis.

II. Instrument Performance:

A Tracor GC using dual ECD detectors and a DB-608 and a DB-5 column was used for this analysis.

A. DDT Retention Time: DDT eluted later than the 12 minute criteria on both columns.

B. Retention Time Windows: Acceptable. Retention times for the standards were within the windows set by the initial calibration. The retention time windows used were 1.0% of the initial retention time.

C. DDT/Endrin Degradation: Acceptable. The DDT/Endrin degradation was less than 20% on both columns.

D. Surrogate Retention Times: Acceptable. All samples had retention time percent differences less than 1.5% for the surrogates 4,4'-Dibromo-octafluorobiphenyl (DBOB), Dibutylchlorendate (DBC), and Decachlorobiphenyl (DCB).

Printed on Recycled Paper

III. Calibration:

A. Initial Calibration: Acceptable. For all samples covered by this memo, a six point calibration was used for Aroclor 1242 and 1260. A three point calibration curve was used for the single response pesticides including g-Chlordane. All calibration curves were generated using a quadratic equation and had correlation coefficients of 0.99 or better. Furthermore, a single point calibration was injected for Chlordane (tech), Toxaphene, and the rest of the PCBs (Aroclors 1016, 1221, 1232, 1248, 1254) which were used for the determination of the Practical Quantitation Limit (PQL) and pattern recognition.

B. Analytical Sequence: Acceptable.

C. Continuing Calibration: Acceptable. The continuing calibration standards were within the 15 percent difference criteria for both columns. Therefore, no qualifiers were assigned on this basis.

IV. Method Blank Analysis:

Acceptable. Two blanks were analyzed for the water samples, BW2245 and BW2245D. No target peaks occurred at or above the quantitation limit in either blank. Therefore, no qualifiers were assigned on this basis.

V. Surrogate Recoveries:

Acceptable. The DBOB recoveries ranged from 70%-87%; DBC recoveries ranged from 75%-102%, and the DCB recoveries ranged from 73%-86%. No qualifiers were assigned on this basis.

VI. Matrix Spike/Matrix Spike Duplicate:

Sample 92352352 was spiked in duplicate with Lindane, Heptachlor, Aldrin, g-Chlordane, Endosulfan I, Endrin, DDT, and Methoxychlor. The recoveries were as follows:

	92352352W	92352352X
Lindane	107%	96%
Heptachlor	86%	78%
Aldrin	75%	65%
g-Chlordane	92%	89%
Endosulfan I	101%	99%
Endrin	107%	107%
DDT	98%	97%
Methoxychlor	115%	108%

The recoveries were within the expected range and considered acceptable. Moreover the overall precision was excellent. No qualifiers were assigned on this basis.

VII. Compound Identification/Quantitation:

Chlorinated pesticides/PCBs were not detected in any of the water samples.

VIII. Overall Assessment/Data Use:

Acceptable for use with the qualifiers as assigned in the sections above. The data was evaluated using the guidelines set out in the "Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses" (Feb. '88).

cc: B. Woods
K. Steward

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352351 Description: WAW01 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 08:37

Pest/PCB - PP Scan	Water-Total Result	Units
4,4'-DDT	0.052U	ug/l
Chlordane (Tech)	0.52U	ug/l
gamma-BHC (Lindane)	0.052U	ug/l
Dieldrin	0.052U	ug/l
Endrin	0.052U	ug/l
Methoxychlor	0.052U	ug/l
4,4'-DDD	0.052U	ug/l
4,4'-DDE	0.052U	ug/l
Heptachlor	0.052U	ug/l
Aldrin	0.052U	ug/l
alpha-BHC	0.052U	ug/l
beta-BHC	0.052U	ug/l
delta-BHC	0.052U	ug/l
Endosulfan I	0.052U	ug/l
Heptachlor Epoxide	0.052U	ug/l
Endosulfan sulfate	0.052U	ug/l
Endrin aldehyde	0.052U	ug/l
Toxaphene	3.0U	ug/l
PCB - 1260	0.52U	ug/l
PCB - 1254	0.52U	ug/l
PCB - 1221	0.52U	ug/l
PCB - 1232	0.52U	ug/l
PCB - 1248	0.52U	ug/l
PCB - 1016	0.52U	ug/l
Endosulfan II	0.052U	ug/l
PCB - 1242	0.52U	ug/l
Endrin Ketone	0.052U	ug/l
DIBUTYLCHLORENDATE (SS)	87	% Recov
DECACHLOROBIPHENYL	86	% Recov
4,4-Dibromooctafluorob+	83	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352352 Description: WSW01 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 09:15

Pest/PCB - PP Scan	Water-Total Result	Units
4,4'-DDT	0.054U	ug/l
Chlordane (Tech)	0.54U	ug/l
gamma-BHC (Lindane)	0.054U	ug/l
Dieldrin	0.054U	ug/l
Endrin	0.054U	ug/l
Methoxychlor	0.054U	ug/l
4,4'-DDD	0.054U	ug/l
4,4'-DDE	0.054U	ug/l
Heptachlor	0.054U	ug/l
Aldrin	0.054U	ug/l
alpha-BHC	0.054U	ug/l
beta-BHC	0.054U	ug/l
delta-BHC	0.054U	ug/l
Endosulfan I	0.054U	ug/l
Heptachlor Epoxide	0.054U	ug/l
Endosulfan sulfate	0.054U	ug/l
Endrin aldehyde	0.054U	ug/l
Toxaphene	3.2U	ug/l
PCB - 1260	0.54U	ug/l
PCB - 1254	0.54U	ug/l
PCB - 1221	0.54U	ug/l
PCB - 1232	0.54U	ug/l
PCB - 1248	0.54U	ug/l
PCB - 1016	0.54U	ug/l
Endosulfan II	0.054U	ug/l
PCB - 1242	0.54U	ug/l
Endrin Ketone	0.054U	ug/l
DIBUTYLCHLORENDATE (SS)	92	% Recov
DECACHLOROBIPHENYL	86	% Recov
4,4-Dibromooctafluorob+	87	% Recov

Pest/PCB - PP Scan Matrix Spike #1	Water-Total Result	Units
4,4'-DDT	98	% Recov
Chlordane (Tech)	92	% Recov
gamma-BHC (Lindane)	107	% Recov
Dieldrin	NAF	% Recov
Endrin	107	% Recov
Methoxychlor	115	% Recov
4,4'-DDD	NAF	% Recov
4,4'-DDE	NAF	% Recov
Heptachlor	86	% Recov
Aldrin	75	% Recov

Pest/PCB - PP Scan *** Continued *** Matrix Spike #1	Water-Total Result	Units
alpha-BHC	NAF	% Recov
beta-BHC	NAF	% Recov
delta-BHC	NAF	% Recov
Endosulfan I	101	% Recov
Heptachlor Epoxide	NAF	% Recov
Endosulfan sulfate	NAF	% Recov
Endrin aldehyde	NAF	% Recov
Toxaphene	NAF	% Recov
PCB - 1260	NAF	% Recov
PCB - 1254	NAF	% Recov
PCB - 1221	NAF	% Recov
PCB - 1232	NAF	% Recov
PCB - 1248	NAF	% Recov
PCB - 1016	NAF	% Recov
Endosulfan II	NAF	% Recov
PCB - 1242	NAF	% Recov
Endrin Ketone	NAF	% Recov
DIBUTYLCHLORENDATE (SS)	102	% Recov
DECACHLOROBIPHENYL	80	% Recov
4,4-Dibromooctafluorob+	71	% Recov

Pest/PCB - PP Scan Matrix Spike #2	Water-Total Result	Units
4,4'-DDT	97	% Recov
Chlordane (Tech)	89	% Recov
gamma-BHC (Lindane)	96	% Recov
Dieldrin	NAF	% Recov
Endrin	107	% Recov
Methoxychlor	108	% Recov
4,4'-DDD	NAF	% Recov
4,4'-DDE	NAF	% Recov
Heptachlor	78	% Recov
Aldrin	65	% Recov
alpha-BHC	NAF	% Recov
beta-BHC	NAF	% Recov
delta-BHC	NAF	% Recov
Endosulfan I	99	% Recov
Heptachlor Epoxide	NAF	% Recov
Endosulfan sulfate	NAF	% Recov
Endrin aldehyde	NAF	% Recov
Toxaphene	NAF	% Recov
PCB - 1260	NAF	% Recov

Pest/PCB - PP Scan *** Continued *** Matrix Spike #2	Water-Total Result	Units
PCB - 1254	NAF	% Recov
PCB - 1221	NAF	% Recov
PCB - 1232	NAF	% Recov
PCB - 1248	NAF	% Recov
PCB - 1016	NAF	% Recov
Endosulfan II	NAF	% Recov
PCB - 1242	NAF	% Recov
Endrin Ketone	NAF	% Recov
DIBUTYLCHLORENDATE (SS)	93	% Recov
DECACHLOROBIPHENYL	81	% Recov
4,4-Dibromooctafluorob+	73	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352353 Description: WSW02 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 09:15

Pest/PCB - PP Scan	Water-Total Result	Units
4,4'-DDT	0.050U	ug/l
Chlordane (Tech)	0.50U	ug/l
gamma-BHC (Lindane)	0.050U	ug/l
Dieldrin	0.050U	ug/l
Endrin	0.050U	ug/l
Methoxychlor	0.050U	ug/l
4,4'-DDD	0.050U	ug/l
4,4'-DDE	0.050U	ug/l
Heptachlor	0.050U	ug/l
Aldrin	0.050U	ug/l
alpha-BHC	0.050U	ug/l
beta-BHC	0.050U	ug/l
delta-BHC	0.050U	ug/l
Endosulfan I	0.050U	ug/l
Heptachlor Epoxide	0.050U	ug/l
Endosulfan sulfate	0.050U	ug/l
Endrin aldehyde	0.050U	ug/l
Toxaphene	3.0U	ug/l
PCB - 1260	0.050U	ug/l
PCB - 1254	0.050U	ug/l
PCB - 1221	0.050U	ug/l
PCB - 1232	0.050U	ug/l
PCB - 1248	0.050U	ug/l
PCB - 1016	0.050U	ug/l
Endosulfan II	0.050U	ug/l
PCB - 1242	0.050U	ug/l
Endrin Ketone	0.050U	ug/l
DIBUTYLCHLORENDATE (SS)	92	% Recov
DECACHLOROBIPHENYL	86	% Recov
4,4-Dibromooctafluorob+	86	% Recov

(Sample Complete)

EPA Region X Lab Management System
Sample/Project Analysis Results

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352354 Description: WHC01 Source: Well (Test/Observation)

Begin Date: 92/08/26 10:20

Pest/PCB - PP Scan	Water-Total Result	Units
4,4'-DDT	0.051U	ug/l
Chlordane (Tech)	0.51U	ug/l
gamma-BHC (Lindane)	0.051U	ug/l
Dieldrin	0.051U	ug/l
Endrin	0.051U	ug/l
Methoxychlor	0.051U	ug/l
4,4'-DDD	0.051U	ug/l
4,4'-DDE	0.051U	ug/l
Heptachlor	0.051U	ug/l
Aldrin	0.051U	ug/l
alpha-BHC	0.051U	ug/l
beta-BHC	0.051U	ug/l
delta-BHC	0.051U	ug/l
Endosulfan 1	0.051U	ug/l
Heptachlor Epoxide	0.051U	ug/l
Endosulfan sulfate	0.051U	ug/l
Endrin aldehyde	0.051U	ug/l
Toxaphene	1.1U	ug/l
PCB - 1260	0.51U	ug/l
PCB - 1254	0.51U	ug/l
PCB - 1221	0.51U	ug/l
PCB - 1232	0.51U	ug/l
PCB - 1248	0.51U	ug/l
PCB - 1016	0.51U	ug/l
Endosulfan II	0.051U	ug/l
PCB - 1242	0.51U	ug/l
Endrin Ketone	0.051U	ug/l
DIBUTYLCHLORENDATE (SS)	75	% Recov
DECACHLOROBIPHENYL	73	% Recov
4,4-Dibromooctafluorob+	77	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU22

Blank ID: BW2245

Pest/PCB - PP Scan Blank #1	Water-Total Result	Units
4,4'-DDT	0.10U	ug/l
Chlordane (Tech)	1.0U	ug/l
gamma-BHC (Lindane)	0.10U	ug/l
Dieldrin	0.10U	ug/l
Endrin	0.10U	ug/l
Methoxychlor	0.10U	ug/l
4,4'-DDD	0.10U	ug/l
4,4'-DDE	0.10U	ug/l
Heptachlor	0.10U	ug/l
Aldrin	0.10U	ug/l
alpha-BHC	0.10U	ug/l
beta-BHC	0.10U	ug/l
delta-BHC	0.10U	ug/l
Endosulfan I	0.10U	ug/l
Heptachlor Epoxide	0.10U	ug/l
Endosulfan sulfate	0.10U	ug/l
Endrin aldehyde	0.10U	ug/l
Toxephene	6.0U	ug/l
PCB - 1260	1.0U	ug/l
PCB - 1254	1.0U	ug/l
PCB - 1221	1.0U	ug/l
PCB - 1232	1.0U	ug/l
PCB - 1248	1.0U	ug/l
PCB - 1016	1.0U	ug/l
Endosulfan II	0.10U	ug/l
PCB - 1242	1.0U	ug/l
Endrin Ketone	0.10U	ug/l
DIBUTYLCHLORENDATE (SS)	87	% Recov
DECACHLOROBIPHENYL	81	% Recov
4,4-Dibromooctafluorob+	70	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: PA10PU2Z

Blank ID: BW2245D

Pest/PCB - PP Scan Blank #2	Water-Total Result	Units
4,4'-DDT	0.10U	ug/l
Chlordane (Tech)	1.0U	ug/l
gamma-BHC (Lindane)	0.10U	ug/l
Dieldrin	0.10U	ug/l
Endrin	0.10U	ug/l
Methoxychlor	0.10U	ug/l
4,4'-DDD	0.10U	ug/l
4,4'-DDE	0.10U	ug/l
Heptachlor	0.10U	ug/l
Aldrin	0.10U	ug/l
alpha-BHC	0.10U	ug/l
beta-BHC	0.10U	ug/l
delta-BHC	0.10U	ug/l
Endosulfan I	0.10U	ug/l
Heptachlor Epoxide	0.10U	ug/l
Endosulfan sulfate	0.10U	ug/l
Endrin aldehyde	0.10U	ug/l
Toxaphene	6.0U	ug/l
PCB - 1260	1.0U	ug/l
PCB - 1254	1.0U	ug/l
PCB - 1221	1.0U	ug/l
PCB - 1232	1.0U	ug/l
PCB - 1248	1.0U	ug/l
PCB - 1016	1.0U	ug/l
Endosulfan II	0.10U	ug/l
PCB - 1242	1.0U	ug/l
Endrin Ketone	0.10U	ug/l
DIBUTYLCHLORENDATE (SS)	84	% Recov
DECACHLOROBIPHENYL	84	% Recov
4,4-Dibromooctafluorob+	65	% Recov

(Sample Complete)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 BEACH DR. EAST
PORT ORCHARD, WASHINGTON 98366

RECEIVED
OCT 30 1992
URS CONSULTANTS

October 23, 1992

DCL#: 62760 05 60 166 1992
FILE NO. 15.61
CC:
PM__ DPM__ SM X C/SM__ FILE X

MEMORANDUM

SUBJECT: Data Review of Avery Railroad Dump and Roundhouse Soil Samples for Chlorinated Pesticides/PCBs

FROM: R. H. Rieck, Chemist R. H. Rieck

TO: Monica Rolluda, Project Officer

The Quality Assurance review of twenty soil samples from Avery Railroad Dump and Roundhouse for Chlorinated Pesticides and PCBs has been completed. Extraction and analysis of the samples were performed by EPA Method 8080.

I. Holding Times:

Acceptable. All samples were collected on 08/25/92 and 08/26/92. Extractions were conducted on 09/02/92 and 09/03/92. Thus all extractions were performed within the fourteen day holding time for soil.

The sample extracts were analyzed on 10/13/92 which is within the usually accepted 40 day holding time for extracts except for samples 92352358 and 92352359. Since we exceeded the holding time for these two sample extracts by only one day and all surrogate spikes and matrix spikes were acceptable, no qualifiers were assigned on this basis.

II. Instrument Performance:

A Tracor GC using dual ECD detectors and a DB-608 and a DB-5 column was used for this analysis.

A. DDT Retention Time: DDT eluted later than the 12 minute criteria on both columns.

B. Retention Time Windows: Acceptable. Retention times for the standards were within the windows set by the initial calibration. The retention time windows used were 1.0% of the initial retention time.

C. DDT/Endrin Degradation: Acceptable. The DDT/Endrin degradation was less than 20% on both columns.

D. Surrogate Retention Times: Acceptable. All samples had retention time percent differences less than 1.5% for the

Printed on Recycled Paper

surrogates 4,4'-Dibromo-octafluorobiphenyl (DBOB), Dibutylchlorendate (DBC), and Decachlorobiphenyl (DCB).

III. Calibration:

A. Initial Calibration: Acceptable. For all samples covered by this memo, a six point calibration was used for Aroclor 1242 and 1260. A three point calibration curve was used for the single response pesticides including g-Chlordane. All calibration curves were generated using a quadratic equation and had correlation coefficients of 0.99 or better. Furthermore, a single point calibration was injected for Chlordane (tech), Toxaphene, and the rest of the PCBs (Aroclors 1016, 1221, 1232, 1248, 1254) which were used for the determination of the Practical Quantitation Limit (PQL) and pattern recognition.

B. Analytical Sequence: Acceptable.

C. Continuing Calibration: Acceptable. The continuing calibration standards were within the 15 percent difference criteria for both columns. Therefore, no qualifiers were assigned on this basis.

IV. Method Blank Analysis:

Acceptable. Four blanks were analyzed for the soil samples, BS2246, BS2246D, BS2247 and BW2247D. No target peaks occurred at or above the quantitation limit in any of the blanks. Therefore, no qualifiers were assigned on this basis.

V. Surrogate Recoveries:

Acceptable. The DBOB recoveries ranged from 81%-156%; DBC recoveries ranged from 50%-107% except for one sample that had a high background with a 40% recovery, and the DCB recoveries ranged from 56%-134%. No qualifiers were assigned on this basis. If one of the surrogates happened to have a problem, the other two were always acceptable.

VI. Matrix Spike/Matrix Spike Duplicate:

Samples 92352358 and 92352363 were spiked in duplicate with Lindane, Heptachlor, Aldrin, g-Chlordane, Endosulfan I, Endrin, DDT, and Methoxychlor. The recoveries were as follows:

	92352358W	92352358X	92352363W	92352363X
Lindane	68%	74%	78%	73%
Heptachlor	98%	102%	133%	146%
Aldrin	75%	75%	95%	113%
g-Chlordane	58%	66%	95%	113%
Endosulfan I	48%*	48%*	57%*	31%*

Endrin	Totally Removed By Acid Treatment			
DDT	98%	116%	64%	103%
Methoxychlor	37%*	20%*	34%*	35%*

*Both samples contained high background that required Sulfuric Acid treatment. This resulted in the low recovery for Endosulfan I and Methoxychlor as well as the total removal of Endrin. Dieldrin would also be totally removed. These four pesticides are flagged with a "J" for those samples requiring acid treatment. The following samples required acid treatment- 92352358, '58W, '58X, '63, '63W, '63X, '68 and '69. The recoveries for the rest of the pesticides were within the expected range and considered acceptable. Moreover the overall precision was acceptable. No qualifiers were assigned on this basis except for those samples/analytes noted.

VII. Compound Identification/Quantitation:

Chlorinated pesticides were not detected in any of the soil samples. Twelve samples contained low concentrations of Aroclor 1260, and one sample (92352375) contained a significant concentration of Aroclor 1260 at almost 87,000 ug/Kg. Note that sample 92352375 also contained Tri and Tetrachlorobenzenes which were not quantitated.

VIII. Overall Assessment/Data Use:

Acceptable for use with the qualifiers as assigned in the sections above. The data was evaluated using the guidelines set out in the "Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses" (Feb. '88).

cc: B. Woods
K. Steward

Qualifier and Remark Codes
for
Manchester Environmental Laboratory Generated Data

Qualifier remark code	Definition
"B"	Analyte was also found in the analytical method blank indicating the sample may have been contaminated. (Not used when reporting organic data.)
"EXP"	The result is equal to the number before EXP times 10 to the power of the number after EXP. As an example 3EXP6 equals 3 X 10^6.
"E"	Reported result is an estimate because of the presence of interference. (Not used when reporting organic data.)
"J"	The analyte was positively identified. The associated numerical result is an estimate.
"N"	For organic analytes there is evidence the analyte is present in this sample. For metals analytes the spike sample recovery is not within control limits.
"NJ"	There is evidence that the analyte is present. The associated numerical result is an estimate.
"NAF"	Not analyzed for.
"P"	The analyte was detected above the instrument detection limit but below the established minimum quantitation limit. (Not used when reporting organic data.)
"REJ"	The data are unusable for all purposes.
"U"	The analyte was not detected at or above the reported result.
"UJ"	The analyte was not detected at or above the reported estimated result.
"*"	The analyte was present in the sample. (Visual Aid to locate detected compound on report sheet.)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: NZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352358 Description: ORS01 Source: Sludge (Waste Pond)

Begin Date: 92/08/25 12:00

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	110U	ug/kg
Chlordane (Tech)	112U	ug/kg
gamma-BHC (Lindane)	110U	ug/kg
Dieldrin	110UJ	ug/kg
Endrin	110UJ	ug/kg
Methoxychlor	110UJ	ug/kg
4,4'-DDD	110U	ug/kg
4,4'-DDE	110U	ug/kg
Heptachlor	110U	ug/kg
Aldrin	110U	ug/kg
alpha-BHC	110U	ug/kg
beta-BHC	110U	ug/kg
delta-BHC	110U	ug/kg
Endosulfan I	110UJ	ug/kg
Heptachlor Epoxide	110U	ug/kg
Endosulfan sulfate	110U	ug/kg
Endrin aldehyde	110U	ug/kg
Toxaphene	670U	ug/kg
PCB - 1260	760 *	ug/kg
PCB - 1254	112U	ug/kg
PCB - 1221	112U	ug/kg
PCB - 1232	112U	ug/kg
PCB - 1248	112U	ug/kg
PCB - 1016	112U	ug/kg
Endosulfan II	110U	ug/kg
PCB - 1242	112U	ug/kg
Endrin Ketone	110U	ug/kg
Surrog: 2,4,6-Tribromo+	130	% Recov
DIBUTYLCHLORENDATE (SS)	52	% Recov
DECACHLOROBIPHENYL	86	% Recov

Pest/PCB - PP Scan *** Continued *** Matrix Spike #1	Sediment Result	Units
alpha-BHC	NAF	% Recov
beta-BHC	NAF	% Recov
delta-BHC	NAF	% Recov
Endosulfan I	48	% Recov
Heptachlor Epoxide	NAF	% Recov
Endosulfan sulfate	NAF	% Recov
Endrin aldehyde	NAF	% Recov
Toxaphene	NAF	% Recov
PCB - 1260	NAF	% Recov
PCB - 1254	NAF	% Recov
PCB - 1221	NAF	% Recov
PCB - 1232	NAF	% Recov
PCB - 1248	NAF	% Recov
PCB - 1016	NAF	% Recov
Endosulfan II	NAF	% Recov
PCB - 1242	NAF	% Recov
Endrin Ketone	NAF	% Recov
Surrog: 2,4,6-Tribromo+	83	% Recov
DIBUTYLCHLORENDATE (SS)	53	% Recov
DECACHLOROBIPHENYL	83	% Recov

Pest/PCB - PP Scan *** Continued *** Matrix Spike #2	Sediment Result	Units
PCB - 1254	NAF	% Recov
PCB - 1221	NAF	% Recov
PCB - 1232	NAF	% Recov
PCB - 1248	NAF	% Recov
PCB - 1016	NAF	% Recov
Endosulfan II	NAF	% Recov
PCB - 1242	NAF	% Recov
Endrin Ketone	NAF	% Recov
Surrog: 2,4,6-Tribromo+	81	% Recov
DIBUTYLCHLORENDATE (SS)	59	% Recov
DECACHLOROBIPHENYL	78	% Recov

Pest/PCB - PP Scan Matrix Spike #1	Sediment Result	Units
4,4'-DDT	98	% Recov
Chlordane (Tech)	58	% Recov
gamma-BHC (Lindane)	68	% Recov
Dieldrin	NAF	% Recov
Endrin	NAF	% Recov
Methoxychlor	37	% Recov
4,4'-DDD	NAF	% Recov
4,4'-DDE	NAF	% Recov
Heptachlor	98	% Recov
Aldrin	75	% Recov

Pest/PCB - PP Scan Matrix Spike #2	Sediment Result	Units
4,4'-DDT	116	% Recov
Chlordane (Tech)	66	% Recov
gamma-BHC (Lindane)	74	% Recov
Dieldrin	NAF	% Recov
Endrin	NAF	% Recov
Methoxychlor	20	% Recov
4,4'-DDD	NAF	% Recov
4,4'-DDE	NAF	% Recov
Heptachlor	102	% Recov
Aldrin	75	% Recov
alpha-BHC	NAF	% Recov
beta-BHC	NAF	% Recov
delta-BHC	NAF	% Recov
Endosulfan I	48J	% Recov
Heptachlor Epoxide	NAF	% Recov
Endosulfan sulfate	NAF	% Recov
Endrin aldehyde	NAF	% Recov
Toxaphene	NAF	% Recov
PCB - 1260	NAF	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352359 Description: ORS02 Source: Sludge (Waste Pond)

Begin Date: 92/08/25 12:00

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	110U	ug/kg
Chlordane (Tech)	109U	ug/kg
gamma-BHC (Lindane)	110U	ug/kg
Dieldrin	110U	ug/kg
Endrin	110U	ug/kg
Methoxychlor	110U	ug/kg
4,4'-DDD	110U	ug/kg
4,4'-DDE	110U	ug/kg
Heptachlor	110U	ug/kg
Aldrin	110U	ug/kg
alpha-BHC	110U	ug/kg
beta-BHC	110U	ug/kg
delta-BHC	110U	ug/kg
Endosulfan I	110U	ug/kg
Heptachlor Epoxide	110U	ug/kg
Endosulfan sulfate	110U	ug/kg
Endrin aldehyde	110U	ug/kg
Toxaphene	660U	ug/kg
PCB - 1260	890 *	ug/kg
PCB - 1254	109U	ug/kg
PCB - 1221	109U	ug/kg
PCB - 1232	109U	ug/kg
PCB - 1248	109U	ug/kg
PCB - 1016	109U	ug/kg
Endosulfan II	110U	ug/kg
PCB - 1242	109U	ug/kg
Endrin Ketone	110U	ug/kg
Surrog: 2,4,6-Tribromot	116	% Recov
DIBUTYLCHLORENDATE (SS)	NAF	% Recov
DECACHLOROBIPHENYL	77	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352360 Description: SS001 Source: Sediment (General)

Begin Date: 92/08/25 12:30

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	6U	ug/kg
Chlordane (Tech)	57U	ug/kg
gamma-BHC (Lindane)	6U	ug/kg
Dieldrin	6U	ug/kg
Endrin	6U	ug/kg
Methoxychlor	6U	ug/kg
4,4'-DDD	6U	ug/kg
4,4'-DDE	6U	ug/kg
Heptachlor	6U	ug/kg
Aldrin	6U	ug/kg
alpha-BHC	6U	ug/kg
beta-BHC	6U	ug/kg
delta-BHC	6U	ug/kg
Endosulfan I	6U	ug/kg
Heptachlor Epoxide	6U	ug/kg
Endosulfan sulfate	6U	ug/kg
Endrin aldehyde	6U	ug/kg
Toxaphene	340U	ug/kg
PCB - 1260	57U	ug/kg
PCB - 1254	57U	ug/kg
PCB - 1221	57U	ug/kg
PCB - 1232	57U	ug/kg
PCB - 1248	57U	ug/kg
PCB - 1016	57U	ug/kg
Endosulfan II	6U	ug/kg
PCB - 1242	57U	ug/kg
Endrin Ketone	6U	ug/kg
Surrog: 2,4,6-Tribromo+	105	% Recov
DIBUTYLCHLORENDATE (SS)	50	% Recov
DECACHLOROBIPHENYL	65	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352361 Description: SS002 Source: Sediment (General)

Begin Date: 92/08/25 11:00

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	6U	ug/kg
Chlordane (Tech)	65U	ug/kg
gamma-BHC (Lindane)	6U	ug/kg
Dieldrin	6U	ug/kg
Endrin	6U	ug/kg
Methoxychlor	6U	ug/kg
4,4'-DDD	6U	ug/kg
4,4'-DDE	6U	ug/kg
Heptachlor	6U	ug/kg
Aldrin	6U	ug/kg
alpha-BHC	6U	ug/kg
beta-BHC	6U	ug/kg
delta-BHC	6U	ug/kg
Endosulfan I	6U	ug/kg
Heptachlor Epoxide	6U	ug/kg
Endosulfan sulfate	6U	ug/kg
Endrin aldehyde	6U	ug/kg
Toxaphene	390U	ug/kg
PCB - 1260	320 *	ug/kg
PCB - 1254	65U	ug/kg
PCB - 1221	65U	ug/kg
PCB - 1232	65U	ug/kg
PCB - 1248	65U	ug/kg
PCB - 1016	65U	ug/kg
Endosulfan II	6U	ug/kg
PCB - 1242	65U	ug/kg
Endrin Ketone	6U	ug/kg
Surrog: 2,4,6-Tribromo+	114	% Recov
DIBUTYLCHLORENDATE (SS)	51	% Recov
DECACHLOROBIPHENYL	68	% Recov

(Sa... Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352362 Description: SS003 Source: Sediment (General)

Begin Date: 92/08/25 10:25

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	5U	ug/kg
Chlordane (Tech)	52U	ug/kg
gamma-BHC (Lindane)	5U	ug/kg
Dieldrin	5U	ug/kg
Endrin	5U	ug/kg
Methoxychlor	5U	ug/kg
4,4'-DDD	5U	ug/kg
4,4'-DDE	5U	ug/kg
Heptachlor	5U	ug/kg
Aldrin	5U	ug/kg
alpha-BHC	5U	ug/kg
beta-BHC	5U	ug/kg
delta-BHC	5U	ug/kg
Endosulfan I	5U	ug/kg
Heptachlor Epoxide	5U	ug/kg
Endosulfan sulfate	5U	ug/kg
Endrin aldehyde	5U	ug/kg
Toxaphene	310U	ug/kg
PCB - 1260	52U	ug/kg
PCB - 1254	52U	ug/kg
PCB - 1221	52U	ug/kg
PCB - 1232	52U	ug/kg
PCB - 1248	52U	ug/kg
PCB - 1016	52U	ug/kg
Endosulfan II	5U	ug/kg
PCB - 1242	52U	ug/kg
Endrin Ketone	5U	ug/kg
Surrog: 2,4,6-Tribromo+	96	% Recov
DIBUTYLCHLORENDATE (SS)	50	% Recov
DECACHLOROBIPHENYL	61	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352363 Description: SS064 Source: Sediment (General)

Begin Date: 92/08/25 11:30

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	5U	ug/kg
Chlordane (Tech)	52U	ug/kg
gamma-BHC (Lindane)	5U	ug/kg
Dieldrin	5UJ	ug/kg
Endrin	5UJ	ug/kg
Methoxychlor	5U	ug/kg
4,4'-DDD	5U	ug/kg
4,4'-DDE	5U	ug/kg
Heptachlor	5U	ug/kg
Aldrin	5U	ug/kg
alpha-BHC	5U	ug/kg
beta-BHC	5U	ug/kg
delta-BHC	5U	ug/kg
Endosulfan I	5UJ	ug/kg
Heptachlor Epoxide	5U	ug/kg
Endosulfan sulfate	5U	ug/kg
Endrin aldehyde	5U	ug/kg
Toxaphene	310U	ug/kg
PCB - 1260	260 *	ug/kg
PCB - 1254	52U	ug/kg
PCB - 1221	52U	ug/kg
PCB - 1232	52U	ug/kg
PCB - 1248	52U	ug/kg
PCB - 1016	52U	ug/kg
Endosulfan II	5U	ug/kg
PCB - 1242	52U	ug/kg
Endrin Ketone	5UJ	ug/kg
Surrog: 2,4,6-Tribromo+	121	% Recov
DIBUTYLCHLORENDATE (SS)	66	% Recov
DECACHLOROBIPHENYL	98	% Recov

Pest/PCB - PP Scan Matrix Spike #1	Sediment Result	Units
4,4'-DDT	64	% Recov
Chlordane (Tech)	95	% Recov
gamma-BHC (Lindane)	78	% Recov
Dieldrin	NAF	% Recov
Endrin	NAF	% Recov
Methoxychlor	34J	% Recov
4,4'-DDD	NAF	% Recov
4,4'-DDE	NAF	% Recov
Heptachlor	133	% Recov
Aldrin	95	% Recov

Pest/PCB - PP Scan *** Continued *** Matrix Spike #1	Sediment Result	Units
alpha-BHC	NAF	% Recov
beta-BHC	NAF	% Recov
delta-BHC	NAF	% Recov
Endosulfan I	57J	% Recov
Heptachlor Epoxide	NAF	% Recov
Endosulfan sulfate	NAF	% Recov
Endrin aldehyde	NAF	% Recov
Toxaphene	NAF	% Recov
PCB - 1260	NAF	% Recov
PCB - 1254	NAF	% Recov
PCB - 1221	NAF	% Recov
PCB - 1232	NAF	% Recov
PCB - 1248	NAF	% Recov
PCB - 1016	NAF	% Recov
Endosulfan II	NAF	% Recov
PCB - 1242	NAF	% Recov
Endrin Ketone	NAF	% Recov
Surrog: 2,4,6-Tribromo+	104	% Recov
DIBUTYLCHLORENDATE (SS)	107	% Recov
DECACHLOROBIPHENYL	118	% Recov

Pest/PCB - PP Scan Matrix Spike #2	Sediment Result	Units
4,4'-DDT	103	% Recov
Chlordane (Tech)	70	% Recov
gamma-BHC (Lindane)	73	% Recov
Dieldrin	NAF	% Recov
Endrin	NAF	% Recov
Methoxychlor	35J	% Recov
4,4'-DDD	NAF	% Recov
4,4'-DDE	NAF	% Recov
Heptachlor	146	% Recov
Aldrin	113	% Recov
alpha-BHC	NAF	% Recov
beta-BHC	NAF	% Recov
delta-BHC	NAF	% Recov
Endosulfan I	31J	% Recov
Heptachlor Epoxide	NAF	% Recov
Endosulfan sulfate	NAF	% Recov
Endrin aldehyde	NAF	% Recov
Toxaphene	NAF	% Recov
PCB - 1260	NAF	% Recov

Pest/PCB - PP Scan *** Continued *** Matrix Spike #2	Sediment Result	Units
PCB - 1254	NAF	% Recov
PCB - 1221	NAF	% Recov
PCB - 1232	NAF	% Recov
PCB - 1248	NAF	% Recov
PCB - 1016	NAF	% Recov
Endosulfan II	NAF	% Recov
PCB - 1242	NAF	% Recov
Endrin Ketone	NAF	% Recov
Surrog: 2,4,6-Tribromo+	110	% Recov
DIBUTYLCHLORENDATE (SS)	NAF	% Recov
DECACHLOROBIPHENYL	134	% Recov

(Sample Complete)

EPA Region X Lab Management System
Sample/Project Analysis Results

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FAIOPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352364 Description: SS01-1 Source: Sediment (General)

Begin Date: 92/08/26 11:10

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	5U	ug/kg
Chlordane (Tech)	50U	ug/kg
gamma-BHC (Lindane)	5U	ug/kg
Dieldrin	5U	ug/kg
Endrin	5U	ug/kg
Methoxychlor	5U	ug/kg
4,4'-DDD	5U	ug/kg
4,4'-DDE	5U	ug/kg
Heptachlor	5U	ug/kg
Aldrin	5U	ug/kg
alpha-BHC	5U	ug/kg
beta-BHC	5U	ug/kg
delta-BHC	5U	ug/kg
Endosulfan I	5U	ug/kg
Heptachlor Epoxide	5U	ug/kg
Endosulfan sulfate	5U	ug/kg
Endrin aldehyde	5U	ug/kg
Toxaphene	300U	ug/kg
PCB - 1260	390 *	ug/kg
PCB - 1254	50U	ug/kg
PCB - 1221	50U	ug/kg
PCB - 1232	50U	ug/kg
PCB - 1248	50U	ug/kg
PCB - 1016	50U	ug/kg
Endosulfan II	5U	ug/kg
PCB - 1242	50U	ug/kg
Endrin Ketone	5U	ug/kg
Surrog: 2,4,6-Tribromo+	109	% Recov
DIBUTYLCHLORENDATE (SS)	75	% Recov
DECACHLOROBIPHENYL	80	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPU2Z

Laboratory: EPA, Manchester

Sample No: 92 352365 Description: SS01-2 Source: Sediment (General)

Begin Date: 92/08/26 11:10

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	5U	ug/kg
Chlordane (Tech)	46U	ug/kg
gamma-BHC (Lindane)	5U	ug/kg
Dieldrin	5U	ug/kg
Endrin	5U	ug/kg
Methoxychlor	5U	ug/kg
4,4'-DDD	5U	ug/kg
4,4'-DDE	5U	ug/kg
Heptachlor	5U	ug/kg
Aldrin	5U	ug/kg
alpha-BHC	5U	ug/kg
beta-BHC	5U	ug/kg
delta-BHC	5U	ug/kg
Endosulfan I	5U	ug/kg
Heptachlor Epoxide	5U	ug/kg
Endosulfan sulfate	5U	ug/kg
Endrin aldehyde	5U	ug/kg
Toxaphene	270U	ug/kg
PCB - 1260	230 *	ug/kg
PCB - 1254	46U	ug/kg
PCB - 1221	46U	ug/kg
PCB - 1232	46U	ug/kg
PCB - 1248	46U	ug/kg
PCB - 1016	46U	ug/kg
Endosulfan II	5U	ug/kg
PCB - 1242	46U	ug/kg
Endrin Ketone	5U	ug/kg
Surrog: 2,4,6-Tribromo	116	% Recov
DIBUTYLCHLORENDATE (SS)	67	% Recov
DECACHLOROBIPHENYL	77	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU2Z

Laboratory: EPA, Manchester

Sample No: 92 352366 Description: SS02-1 Source: Sediment (General)

Begin Date: 92/08/26 11:35

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	5U	ug/kg
Chlordane (Tech)	49U	ug/kg
gamma-BHC (Lindane)	5U	ug/kg
Dieldrin	5U	ug/kg
Endrin	5U	ug/kg
Methoxychlor	5U	ug/kg
4,4'-DDD	5U	ug/kg
4,4'-DDE	5U	ug/kg
Heptachlor	5U	ug/kg
Aldrin	5U	ug/kg
alpha-BHC	5U	ug/kg
beta-BHC	5U	ug/kg
delta-BHC	5U	ug/kg
Endosulfan I	5U	ug/kg
Heptachlor Epoxide	5U	ug/kg
Endosulfan sulfate	5U	ug/kg
Endrin aldehyde	5U	ug/kg
Toxaphene	290U	ug/kg
PCB - 1260	49U	ug/kg
PCB - 1254	49U	ug/kg
PCB - 1221	49U	ug/kg
PCB - 1232	49U	ug/kg
PCB - 1248	49U	ug/kg
PCB - 1016	49U	ug/kg
Endosulfan II	5U	ug/kg
PCB - 1242	49U	ug/kg
Endrin Ketone	5U	ug/kg
Surrog: 2,4,6-Tribromo+	133	% Recov
DIBUTYLCHLORENDATE (SS)	92	% Recov
DECACHLOROBIPHENYL	96	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352367 Description: SS02-2 Source: Sediment (General)

Begin Date: 92/08/26 11:35

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	5U	ug/kg
Chlordane (Tech)	50U	ug/kg
gamma-BHC (Lindane)	5U	ug/kg
Dieldrin	5U	ug/kg
Endrin	5U	ug/kg
Methoxychlor	5U	ug/kg
4,4'-DDD	5U	ug/kg
4,4'-DDE	5U	ug/kg
Heptachlor	5U	ug/kg
Aldrin	5U	ug/kg
alpha-BHC	5U	ug/kg
beta-BHC	5U	ug/kg
delta-BHC	5U	ug/kg
Endosulfan 1	5U	ug/kg
Heptachlor Epoxide	5U	ug/kg
Endosulfan sulfate	5U	ug/kg
Endrin aldehyde	5U	ug/kg
Toxaphene	300U	ug/kg
PCB - 1260	50U	ug/kg
PCB - 1254	50U	ug/kg
PCB - 1221	50U	ug/kg
PCB - 1232	50U	ug/kg
PCB - 1248	50U	ug/kg
PCB - 1016	50U	ug/kg
Endosulfan II	5U	ug/kg
PCB - 1242	50U	ug/kg
Endrin Ketone	5U	ug/kg
Surrog: 2,4,6-Tribromot	98	% Recov
DIBUTYLCHLORENDATE (SS)	69	% Recov
DECACHLOROBIPHENYL	56	% Recov

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352368 Description: SS03-1 Source: Sediment (General)

Begin Date: 92/08/26 11:45

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	43U	ug/kg
Chlordane (Tech)	43U	ug/kg
gamma-BHC (Lindane)	43U	ug/kg
Dieldrin	43UJ	ug/kg
Endrin	43UJ	ug/kg
Methoxychlor	43UJ	ug/kg
4,4'-DDD	43U	ug/kg
4,4'-DDE	43U	ug/kg
Heptachlor	43U	ug/kg
Aldrin	43U	ug/kg
alpha-BHC	43U	ug/kg
beta-BHC	43U	ug/kg
delta-BHC	43U	ug/kg
Endosulfan I	43UJ	ug/kg
Heptachlor Epoxide	43U	ug/kg
Endosulfan sulfate	43U	ug/kg
Endrin aldehyde	43U	ug/kg
Toxaphene	260U	ug/kg
PCB - 1260	350 *	ug/kg
PCB - 1254	43U	ug/kg
PCB - 1221	43U	ug/kg
PCB - 1232	43U	ug/kg
PCB - 1248	43U	ug/kg
PCB - 1016	43U	ug/kg
Endosulfan II	43U	ug/kg
PCB - 1242	43U	ug/kg
Endrin Ketone	43U	ug/kg
Surrog: 2,4,6-Tribromo+	124	% Recov
DIBUTYLCHLORENDATE (SS)	40	% Recov
DECACHLOROBIPHENYL	97	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPU2Z

Laboratory: EPA, Manchester

Sample No: 92 352369 Description: SS03-2 Source: Sediment (General)

Begin Date: 92/08/26 11:45

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	41U	ug/kg
Chlordane (Tech)	41U	ug/kg
gamma-BHC (Lindane)	41U	ug/kg
Dieldrin	41UJ	ug/kg
Endrin	41UJ	ug/kg
Methoxychlor	41UJ	ug/kg
4,4'-DDD	41U	ug/kg
4,4'-DDE	41U	ug/kg
Heptachlor	41U	ug/kg
Aldrin	41U	ug/kg
alpha-BHC	41U	ug/kg
beta-BHC	41U	ug/kg
delta-BHC	41U	ug/kg
Endosulfan I	41UJ	ug/kg
Heptachlor Epoxide	41U	ug/kg
Endosulfan sulfate	41U	ug/kg
Endrin aldehyde	41U	ug/kg
Toxaphene	240U	ug/kg
PCB - 1260	170 *	ug/kg
PCB - 1254	41U	ug/kg
PCB - 1221	41U	ug/kg
PCB - 1232	41U	ug/kg
PCB - 1248	41U	ug/kg
PCB - 1016	41U	ug/kg
Endosulfan II	41U	ug/kg
PCB - 1242	41U	ug/kg
Endrin Ketone	41U	ug/kg
Surrog: 2,4,6-Tribromot	123	% Recov
DIBUTYLCHLORENDATE (SS)	50	% Recov
DECACHLOROBIPHENYL	94	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352370 Description: SS04-1 Source: Sediment (General)

Begin Date: 92/08/26 12:00

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	6U	ug/kg
Chlordane (Tech)	56U	ug/kg
gamma-BHC (Lindane)	6U	ug/kg
Dieldrin	6U	ug/kg
Endrin	6U	ug/kg
Methoxychlor	6U	ug/kg
4,4'-DDD	6U	ug/kg
4,4'-DDE	6U	ug/kg
Heptachlor	6U	ug/kg
Aldrin	6U	ug/kg
alpha-BHC	6U	ug/kg
beta-BHC	6U	ug/kg
delta-BHC	6U	ug/kg
Endosulfan I	6U	ug/kg
Heptachlor Epoxide	6U	ug/kg
Endosulfan sulfate	6U	ug/kg
Endrin aldehyde	6U	ug/kg
Toxaphene	340U	ug/kg
PCB - 1260	410 *	ug/kg
PCB - 1254	56U	ug/kg
PCB - 1221	56U	ug/kg
PCB - 1232	56U	ug/kg
PCB - 1248	56U	ug/kg
PCB - 1016	56U	ug/kg
Endosulfan II	6U	ug/kg
PCB - 1242	56U	ug/kg
Endrin Ketone	6U	ug/kg
Surrog: 2,4,6-Tribromo+	121	% Recov
DIBUTYLCHLORENDATE (SS)	82	% Recov
DECACHLOROBIPHENYL	79	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352371 Description: SS04-2 Source: Sediment (General)

Begin Date: 92/08/26 12:00

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	5U	ug/kg
Chlordane (Tech)	45U	ug/kg
gamma-BHC (Lindane)	5U	ug/kg
Dieldrin	5U	ug/kg
Endrin	5U	ug/kg
Methoxychlor	5U	ug/kg
4,4'-DDD	5U	ug/kg
4,4'-DDE	5U	ug/kg
Heptachlor	5U	ug/kg
Aldrin	5U	ug/kg
alpha-BHC	5U	ug/kg
beta-BHC	5U	ug/kg
delta-BHC	5U	ug/kg
Endosulfan I	5U	ug/kg
Heptachlor Epoxide	5U	ug/kg
Endosulfan sulfate	5U	ug/kg
Endrin aldehyde	5U	ug/kg
Toxaphene	270U	ug/kg
PCB - 1260	150 *	ug/kg
PCB - 1254	45U	ug/kg
PCB - 1221	45U	ug/kg
PCB - 1232	45U	ug/kg
PCB - 1248	45U	ug/kg
PCB - 1016	45U	ug/kg
Endosulfan II	5U	ug/kg
PCB - 1242	45U	ug/kg
Endrin Ketone	5U	ug/kg
Surrog: 2,4,6-Tribromo+	115	% Recov
DIBUTYLCHLORENDATE (SS)	74	% Recov
DECACHLOROBIPHENYL	70	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352372 Description: SS05-1 Source: Sediment (General)

Begin Date: 92/08/26 12:10

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	4U	ug/kg
Chlordane (Tech)	43U	ug/kg
gamma-BHC (Lindane)	4U	ug/kg
Dieldrin	4U	ug/kg
Endrin	4U	ug/kg
Methoxychlor	4U	ug/kg
4,4'-DDD	4U	ug/kg
4,4'-DDE	4U	ug/kg
Heptachlor	4U	ug/kg
Aldrin	4U	ug/kg
alpha-BHC	4U	ug/kg
beta-BHC	4U	ug/kg
delta-BHC	4U	ug/kg
Endosulfan I	4U	ug/kg
Heptachlor Epoxide	4U	ug/kg
Endosulfan sulfate	4U	ug/kg
Endrin aldehyde	4U	ug/kg
Toxaphene	260U	ug/kg
PCB - 1260	43U	ug/kg
PCB - 1254	43U	ug/kg
PCB - 1221	43U	ug/kg
PCB - 1232	43U	ug/kg
PCB - 1248	43U	ug/kg
PCB - 1016	43U	ug/kg
Endosulfan II	4U	ug/kg
PCB - 1242	43U	ug/kg
Endrin Ketone	4U	ug/kg
Surrog: 2,4,6-Tribromo+	125	% Recov
DIBUTYLCHLORENDATE (SS)	85	% Recov
DECACHLOROBIPHENYL	90	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352373 Description: SS05-2 Source: Sediment (General)

Begin Date: 92/08/26 12:10

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	50U	ug/kg
Chlordane (Tech)	45U	ug/kg
gamma-BHC (Lindane)	50U	ug/kg
Dieldrin	50U	ug/kg
Endrin	50U	ug/kg
Methoxychlor	50U	ug/kg
4,4'-DDD	50U	ug/kg
4,4'-DDE	50U	ug/kg
Heptachlor	50U	ug/kg
Aldrin	50U	ug/kg
alpha-BHC	50U	ug/kg
beta-BHC	50U	ug/kg
delta-BHC	50U	ug/kg
Endosulfan I	50U	ug/kg
Heptachlor Epoxide	50U	ug/kg
Endosulfan sulfate	50U	ug/kg
Endrin aldehyde	50U	ug/kg
Toxaphene	270U	ug/kg
PCB - 1260	370 *	ug/kg
PCB - 1254	45U	ug/kg
PCB - 1221	45U	ug/kg
PCB - 1232	45U	ug/kg
PCB - 1248	45U	ug/kg
PCB - 1016	45U	ug/kg
Endosulfan II	50U	ug/kg
PCB - 1242	45U	ug/kg
Endrin Ketone	50U	ug/kg
Surrog: 2,4,6-Tribromo+	156	% Recov
DIBUTYLCHLORENDATE (SS)	60	% Recov
DECACHLOROBIPHENYL	111	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10FUZZ

Laboratory: EPA, Manchester

Sample No: 92 352374 Description: SS06-1 Source: Sediment (General)

Begin Date: 92/08/26 12:30

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	5U	ug/kg
Chlordane (Tech)	50U	ug/kg
gamma-BHC (Lindane)	5U	ug/kg
Dieldrin	5U	ug/kg
Endrin	5U	ug/kg
Methoxychlor	5U	ug/kg
4,4'-DDD	5U	ug/kg
4,4'-DDE	5U	ug/kg
Heptachlor	5U	ug/kg
Aldrin	5U	ug/kg
alpha-BHC	5U	ug/kg
beta-BHC	5U	ug/kg
delta-BHC	5U	ug/kg
Endosulfan I	5U	ug/kg
Heptachlor Epoxide	5U	ug/kg
Endosulfan sulfate	5U	ug/kg
Endrin aldehyde	5U	ug/kg
Toxaphene	300U	ug/kg
PCB - 1260	50U	ug/kg
PCB - 1254	50U	ug/kg
PCB - 1221	50U	ug/kg
PCB - 1232	50U	ug/kg
PCB - 1248	50U	ug/kg
PCB - 1016	50U	ug/kg
Endosulfan II	5U	ug/kg
PCB - 1242	50U	ug/kg
Endrin Ketone	5U	ug/kg
Surrog: 2,4,6-Tribromo+	112	% Recov
DIBUTYLCHLORENDATE (SS)	77	% Recov
DECACHLOROBIPHENYL	70	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352375 Description: SS06-2 Source: Sediment (General)

Begin Date: 92/08/26 12:30

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	41U	ug/kg
Chlordane (Tech)	410U	ug/kg
gamma-BHC (Lindane)	41U	ug/kg
Dieldrin	41U	ug/kg
Endrin	41U	ug/kg
Methoxychlor	41U	ug/kg
4,4'-DDD	41U	ug/kg
4,4'-DDE	41U	ug/kg
Heptachlor	41U	ug/kg
Aldrin	41U	ug/kg
alpha-BHC	41U	ug/kg
beta-BHC	41U	ug/kg
delta-BHC	41U	ug/kg
Endosulfan I	41U	ug/kg
Heptachlor Epoxide	41U	ug/kg
Endosulfan sulfate	41U	ug/kg
Endrin aldehyde	41U	ug/kg
Toxaphene	2500U	ug/kg
PCB - 1260	86700 *	ug/kg
PCB - 1254	410U	ug/kg
PCB - 1221	410U	ug/kg
PCB - 1232	410U	ug/kg
PCB - 1248	410U	ug/kg
PCB - 1016	410U	ug/kg
Endosulfan II	41U	ug/kg
PCB - 1242	410U	ug/kg
Endrin Ketone	41U	ug/kg
Surrog: 2,4,6-Tribromo+	142	% Recov
DIBUTYLCHLORENDATE (SS)	NAF	% Recov
DECACHLOROBIPHENYL	103	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352376 Description: SS07-1 Source: Sediment (General)

Begin Date: 92/08/26 12:10

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	5U	ug/kg
Chlordane (Tech)	48U	ug/kg
gamma-BHC (Lindane)	5U	ug/kg
Dieldrin	5U	ug/kg
Endrin	5U	ug/kg
Methoxychlor	5U	ug/kg
4,4'-DDD	5U	ug/kg
4,4'-DDE	5U	ug/kg
Heptachlor	5U	ug/kg
Aldrin	5U	ug/kg
alpha-BHC	5U	ug/kg
beta-BHC	5U	ug/kg
delta-BHC	5U	ug/kg
Endosulfan I	5U	ug/kg
Heptachlor Epoxide	5U	ug/kg
Endosulfan sulfate	5U	ug/kg
Endrin aldehyde	5U	ug/kg
Toxaphene	290U	ug/kg
PCB - 1260	48U	ug/kg
PCB - 1254	48U	ug/kg
PCB - 1221	48U	ug/kg
PCB - 1232	48U	ug/kg
PCB - 1248	48U	ug/kg
PCB - 1016	48U	ug/kg
Endosulfan II	5U	ug/kg
PCB - 1242	48U	ug/kg
Endrin Ketone	5U	ug/kg
Surrog: 2,4,6-Tribromo+	117	% Recov
DIBUTYLCHLORENDATE (SS)	86	% Recov
DECACHLOROBIPHENYL	73	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352377 Description: SS07-2 Source: Sediment (General)

Begin Date: 92/08/26 12:10

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	4U	ug/kg
Chlordane (Tech)	41U	ug/kg
gamma-BHC (Lindane)	4U	ug/kg
Dieldrin	4U	ug/kg
Endrin	4U	ug/kg
Methoxychlor	4U	ug/kg
4,4'-DDD	4U	ug/kg
4,4'-DDE	4U	ug/kg
Heptachlor	4U	ug/kg
Aldrin	4U	ug/kg
alpha-BHC	4U	ug/kg
beta-BHC	4U	ug/kg
delta-BHC	4U	ug/kg
Endosulfan I	4U	ug/kg
Heptachlor Epoxide	4U	ug/kg
Endosulfan sulfate	4U	ug/kg
Endrin aldehyde	4U	ug/kg
Toxaphene	240U	ug/kg
PCB - 1260	130 *	ug/kg
PCB - 1254	41U	ug/kg
PCB - 1221	41U	ug/kg
PCB - 1232	41U	ug/kg
PCB - 1248	41U	ug/kg
PCB - 1016	41U	ug/kg
Endosulfan II	4U	ug/kg
PCB - 1242	41U	ug/kg
Endrin Ketone	4U	ug/kg
Surrog: 2,4,6-Tribromo+	136	% Recov
DIBUTYLCHLORENDATE (SS)	71	% Recov
DECACHLOROBIPHENYL	95	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Blank ID: BS2246

Pest/PCB - PP Scan Blank #1	Sediment Result	Units
4,4'-DDT	NAF	ug/kg
Chlordane (Tech)	NAF	ug/kg
gamma-BHC (Lindane)	NAF	ug/kg
Dieldrin	NAF	ug/kg
Endrin	NAF	ug/kg
Methoxychlor	NAF	ug/kg
4,4'-DDD	NAF	ug/kg
4,4'-DDE	NAF	ug/kg
Heptachlor	NAF	ug/kg
Aldrin	NAF	ug/kg
alpha-BHC	NAF	ug/kg
beta-BHC	NAF	ug/kg
delta-BHC	NAF	ug/kg
Endosulfan I	NAF	ug/kg
Heptachlor Epoxide	NAF	ug/kg
Endosulfan sulfate	NAF	ug/kg
Endrin aldehyde	NAF	ug/kg
Toxaphene	NAF	ug/kg
PCB - 1260	NAF	ug/kg
PCB - 1254	NAF	ug/kg
PCB - 1221	NAF	ug/kg
PCB - 1232	NAF	ug/kg
PCB - 1248	NAF	ug/kg
PCB - 1016	NAF	ug/kg
Endosulfan II	NAF	ug/kg
PCB - 1242	NAF	ug/kg
Endrin Ketone	NAF	ug/kg
Surrog: 2,4,6-Tribromot	153	% Recov
DIBUTYLCHLORENDATE (SS)	81	% Recov
DECACHLOROBIPHENYL	99	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: M2R Account: FA10PU22

Blank ID: BS2246D

Pest/PCB - PP Scan Blank #2	Sediment Result	Units
4,4'-DDT	NAF	ug/kg
Chlordane (Tech)	NAF	ug/kg
gamma-BHC (Lindane)	NAF	ug/kg
Dieldrin	NAF	ug/kg
Endrin	NAF	ug/kg
Methoxychlor	NAF	ug/kg
4,4'-DDD	NAF	ug/kg
4,4'-DDE	NAF	ug/kg
Heptachlor	NAF	ug/kg
Aldrin	NAF	ug/kg
alpha-BHC	NAF	ug/kg
beta-BHC	NAF	ug/kg
delta-BHC	NAF	ug/kg
Endosulfan I	NAF	ug/kg
Heptachlor Epoxide	NAF	ug/kg
Endosulfan sulfate	NAF	ug/kg
Endrin aldehyde	NAF	ug/kg
Toxaphene	NAF	ug/kg
PCB - 1260	NAF	ug/kg
PCB - 1254	NAF	ug/kg
PCB - 1221	NAF	ug/kg
PCB - 1232	NAF	ug/kg
PCB - 1248	NAF	ug/kg
PCB - 1016	NAF	ug/kg
Endosulfan II	NAF	ug/kg
PCB - 1242	NAF	ug/kg
Endrin Ketone	NAF	ug/kg
Surrog: 2,4,6-Tribromo+	126	% Recov
DIBUTYLCHLORENDATE (SS)	57	% Recov
DECACHLOROBIPHENYL	76	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE

Officer: MZR

Account: FA1OPUZZ

Blank ID: BS2247

Pest/PCB - PP Scan Blank #1	Sediment Result	Units
4,4'-DDT	NAF	ug/kg
Chlordane (Tech)	NAF	ug/kg
gamma-BHC (Lindane)	NAF	ug/kg
Dieldrin	NAF	ug/kg
Endrin	NAF	ug/kg
Methoxychlor	NAF	ug/kg
4,4'-DDD	NAF	ug/kg
4,4'-DDE	NAF	ug/kg
Heptachlor	NAF	ug/kg
Aldrin	NAF	ug/kg
alpha-BHC	NAF	ug/kg
beta-BHC	NAF	ug/kg
delta-BHC	NAF	ug/kg
Endosulfan I	NAF	ug/kg
Heptachlor Epoxide	NAF	ug/kg
Endosulfan sulfate	NAF	ug/kg
Endrin aldehyde	NAF	ug/kg
Toxaphene	NAF	ug/kg
PCB - 1260	NAF	ug/kg
PCB - 1254	NAF	ug/kg
PCB - 1221	NAF	ug/kg
PCB - 1232	NAF	ug/kg
PCB - 1248	NAF	ug/kg
PCB - 1016	NAF	ug/kg
Endosulfan II	NAF	ug/kg
PCB - 1242	NAF	ug/kg
Endrin Ketone	NAF	ug/kg
Surrog: 2,4,6-Tribromo+	106	% Recov
DIBUTYLCHLORENDATE (SS)	70	% Recov
DECACHLOROBIPHENYL	73	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Blank ID: BS2247D

Pest/PCB - PP Scan Blank #2	Sediment Result	Units
4,4'-DDT	NAF	ug/kg
Chlordane (Tech)	NAF	ug/kg
gamma-BHC (Lindane)	NAF	ug/kg
Dieldrin	NAF	ug/kg
Endrin	NAF	ug/kg
Methoxychlor	NAF	ug/kg
4,4'-DDD	NAF	ug/kg
4,4'-DDE	NAF	ug/kg
Heptachlor	NAF	ug/kg
Aldrin	NAF	ug/kg
alpha-BHC	NAF	ug/kg
beta-BHC	NAF	ug/kg
delta-BHC	NAF	ug/kg
Endosulfan I	NAF	ug/kg
Heptachlor Epoxide	NAF	ug/kg
Endosulfan sulfate	NAF	ug/kg
Endrin aldehyde	NAF	ug/kg
Toxaphene	NAF	ug/kg
PCB - 1260	NAF	ug/kg
PCB - 1254	NAF	ug/kg
PCB - 1221	NAF	ug/kg
PCB - 1232	NAF	ug/kg
PCB - 1248	NAF	ug/kg
PCB - 1016	NAF	ug/kg
Endosulfan II	NAF	ug/kg
PCB - 1242	NAF	ug/kg
Endrin Ketone	NAF	ug/kg
Surrogt 2,4,6-Tribromo+	104	% Recov
DIBUTYLCHLORENDATE (SS)	54	% Recov
DECACHLOROBIPHENYL	69	% Recov

(Sample Complete)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 BEACH DR. EAST
PORT ORCHARD, WASHINGTON 98366

RECEIVED

OCT 19 1992

DCL#: 62760 05.60.155 1992
FILE NO. 15.61
CC:
PM__ DPM__ SM X C/SM__ FILE X

URS CONSULTANTS October 13,1992

MEMORANDUM

SUBJECT: Report of Data Validation of BNA's for the Avery Railroad Project, Water Samples 92352351, 92352352, 92352353 and 92352354.

FROM: J. Blazevich, Program Manager
Analytical Chemistry Program

TO: Monica Rolluda, Project Officer
Avery Railroad Project

CC: Bruce Woods
KARA Steward

The following is a QA data review of the BNA analysis of water samples collected for the Avery Railroad project and performed at the Manchester Laboratory. This review covers the following samples:

92352351 92352352 92352353 92352354

The project code for these samples is TEC-575A and the account number is 2TFA10PUZZ.

Data qualifications

The following comments refer to laboratory performance meeting the Quality Control specifications outlined in the "CLP Statement of Work, Organic Analysis, revision 1/91."

I. Holding Times: Acceptable

All samples were held seven days or less between collection and extraction. All extracts were held less than forty days between extraction and analysis. No data qualifiers were required due to exceeding holding times.

II. GC/MS Tuning and Performance: Acceptable

The tuning summary agreed with the raw data. All decafluorotriphenylphosphine ion abundance met criteria. All sample analyses were preceded by a tune less than 12 hours prior to analysis. No data qualifiers were required on the basis of tuning data.

Printed on Recycled Paper

III. Initial Calibration: Acceptable

An extended seven point calibration curve was constructed for most target analytes on 1/17/92. The calculation of the relative response factors was checked and the calculation method was correct. All analytes met the SPCC criterion (0.05). The %RSD exceeded 30% for six targets, N-nitrosodiphenylamine, benzoic acid, 4,6-dinitro-2-methylphenol, 2,4-dinitrophenol, carbazole and di-n-octyl phthalate. Each were given the data qualifier J or UJ. All other response factors and %RSDs were acceptable.

IV. Continuing Calibration: Acceptable

9/28/92 Sample 92352351, 92352352, 92352353, 92352354, Matrix Spikes 92352353Y, 923523532 and Blanks EBW2245D1, EBW2245D2.

The response factors for all compounds were above 0.05 except 3-nitroaniline a had response factor of 0.032. All negative results for this analyte were qualified as unusable, R. Eight compounds, benzyl alcohol, 2,6-dinitrotoluene, 4-chloro-3-methylphenol, diethyl phthalate, di-n-butyl phthalate, carbazole butylbenzyl phthalate, and bis(2-ethylhexyl) phthalate, had %diff. values greater than 30%. All values for these analytes were given the qualifier J or UJ. No additional qualifiers were required on the basis of response factor or %diff.

V. Blanks: Acceptable

Two blanks were analyzed with the samples. Common laboratory contaminates, N-nitrosodiphenylamine and bis(2-ethylhexyl) phthalate along with low concentrations of naphthalene, 2-methylnaphthalene, 1-methylnaphthalene, acenaphthalene and phenanthrene, were detected. These analytes were reported in the samples only if the associated integrated areas exceeded those found in the corresponding blank by ten times. No data qualifiers were required based on blank results.

VI. Surrogates: Acceptable

All surrogate recoveries were within specification for all blanks, spikes and samples except for the diluted sample extract of 92352354. Since the extract was diluted, some of the surrogates were not detected. No data qualifiers were required.

VII. Matrix Spike/Matrix Spike Duplicate: Acceptable

Recoveries of most MS/MSD analytes were within CLP and/or Region Ten guidelines. One or both spike recoveries for four analytes, hexachloroethane, hexachlorocyclopentadiene, benzoic acid and 3-nitroaniline, were outside the 50-150% Region Ten acceptance window. All values for these analytes were given the qualifier J or UJ for the corresponding sample, 92352353. No

additional data qualifiers were required on the basis of MS/MSD results.

VIII. Internal Standard Performance: Acceptable

The retention time variations of all internal standards were within 30 seconds of the daily standard which is acceptable. The %area of all the internal standards fell within the 50-200% acceptance window. No data qualifiers were required on the basis of internal standards data.

IX. TCL Compound Identification: Acceptable

All detected TCL compounds' relative retention times were within acceptable limits of the related standards in the continuing calibration standard. Criteria were met for mass spectral ion matching and ion abundance matching or the mass spectra were judged acceptable.

X. Compound Quantitation: Acceptable

Compound quantitation was evaluated correctly. The appropriate internal standards were used. The correct quantitation ions and relative response factors were used. Some analytes were detected in this sample set at levels below the lowest calibration concentration of the initial calibration curve. Since the Practical Quantitation Limit is based on this lowest initial calibration standard, these values were assigned the J qualifier. No additional qualifiers were required on the basis of compound quantitation.

XI. Tentatively Identified Compounds: Acceptable

Spectra for all tentatively identified compounds met criteria for mass spectral ion matching and ion abundance matching or the mass spectra were judged acceptable. Some unknown compounds were detected.

Overall Assessment for the Case

The usefulness of the data is based on the criteria outlined in the "Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses (6/91)."

All requirements for data qualifiers from the preceding sections were accumulated. Each sample data summary sheet and each compound were checked for positive or negative results. From this the overall need for data qualifiers for each analysis was determined. In cases where more than one of the preceding sections required data qualifiers, the most restrictive qualifier has been added to the data.

In general, all unqualified data can be used without restriction. The usefulness of qualified data should be treated according to the severity of the qualifier. Should questions arise regarding the qualification of data and its relation to the usefulness, the reader is encouraged to contact the Region 10 laboratory.

DATA QUALIFIERS

U - The analyte was not detected at or above the reported result.

J - The analyte was positively identified. The associated numerical result is an estimate.

EXP - The result is equal to the number before EXP times 10 to the power of the number after EXP. As an example 3EXP6 equals 3×10^6.

REJ - The data are unusable for all purposes.

N - There is evidence the analyte is present in this sample.

NJ - There is evidence that the analyte is present. The associated numerical result is an estimate.

UJ - The analyte was not detected at or above the reported estimated result. The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.

NAF - Not analyzed for.

* - The analyte was present in the sample. (Visual aid to locate detected compounds on the report sheet.)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: M2R Account: FA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352351 Description: WAW01 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 08:37

B/N/Acid Scan	Water-Total Result	Units
Benzo(a)pyrene	2U	ug/l
2,4-Dinitrophenol	26UJ	ug/l
Dibenzo(a,h)anthracene	5U	ug/l
Benzo(a)anthracene	2U	ug/l
4-Chloro-3-Methylphenol	10UJ	ug/l
Benzoic acid	26UJ	ug/l
Hexachloroethane	2U	ug/l
Hexachlorocyclopentadi+	10U	ug/l
Isophorone	2U	ug/l
Acenaphthene	2U	ug/l
Diethylphthalate	2UJ	ug/l
Di-n-Butylphthalate	2UJ	ug/l
Phenanthrene	2U	ug/l
Butylbenzylphthalate	5UJ	ug/l
N-Nitrosodiphenylamine	26UJ	ug/l
Fluorene	2U	ug/l
Carbazole	10UJ	ug/l
Hexachlorobutadiene	5U	ug/l
Pentachlorophenol	10U	ug/l
2,4,6-Trichlorophenol	5U	ug/l
2-Nitroaniline	5U	ug/l
2-Nitrophenol	5U	ug/l
Naphthalene, 1-Methyl-	2U	ug/l
Naphthalene	2U	ug/l
2-Methylnaphthalene	2U	ug/l
2-Chloronaphthalene	2U	ug/l
3,3'-Dichlorobenzidine	52U	ug/l
2-Methylphenol	2U	ug/l
1,2-Dichlorobenzene	2U	ug/l
o-Chlorophenol (2-Chlo+	2U	ug/l
2,4,5-Trichlorophenol	10U	ug/l
Nitrobenzene	2U	ug/l
3-Nitroaniline	REJ	ug/l
4-Nitroaniline	26U	ug/l
4-Nitrophenol	13U	ug/l
Benzyl Alcohol	41UJ	ug/l
4-Bromophenyl-phenylet+	2U	ug/l
2,4-Dimethylphenol	2U	ug/l
4-Methylphenol	2U	ug/l
1,4-Dichlorobenzene	2U	ug/l
4-Chloroaniline	26U	ug/l
Phenol	2U	ug/l
bis(2-Chloroethyl)Ether	2U	ug/l
bis(2-Chloroethoxy)Met+	2U	ug/l
BIS(2-ETHYLHEXYL) PHTH+	2UJ	ug/l

B/N/Acid Scan *** Continued ***	Water-Total Result	Units
Di-n-Octyl Phthalate	2UJ	ug/l
Hexachlorobenzene	2U	ug/l
Anthracene	2U	ug/l
1,2,4-Trichlorobenzene	2U	ug/l
2,4-Dichlorophenol	2U	ug/l
2,4-Dinitrotoluene	5UJ	ug/l
Pyrene	2U	ug/l
Dimethylphthalate	2U	ug/l
Dibenzofuran	2U	ug/l
Benzo(ghi)perylene	2U	ug/l
Indeno(1,2,3-cd)pyrene	2U	ug/l
Benzo(b)fluoranthene	2U	ug/l
Fluoranthene	2U	ug/l
Benzo(k)fluoranthene	2U	ug/l
Acenaphthylene	2U	ug/l
Chrysene	2U	ug/l
Retene	2U	ug/l
4,6-Dinitro-2-methylph+	26UJ	ug/l
1,3-Dichlorobenzene	2U	ug/l
2,6-Dinitrotoluene	5U	ug/l
N-Nitroso-di-n-Propyla+	2U	ug/l
4-Chlorophenyl-phenyle+	2U	ug/l
bis(2-Chloroisopropyl)+	2U	ug/l
Surrog: 2-Fluorobiphen+	80	% Recov
Surrog: 2-Fluorophenol	68	% Recov
D4-1,2-Dichlorobenzene	50	% Recov
Surrog: D14-Terphenyl	68	% Recov
PYRENE-D10 (SS)	71	% Recov
Surrog: D5-Nitrobenzene	74	% Recov
Surrog: D5-Phenol	56	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10P022

Laboratory: EPA, Manchester

Sample No: 92 352352 Description: WSW01 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 09:15

B/N/Acid Scan	Water-Total Result	Units
Benzo(a)pyrene	2U	ug/l
2,4-Dinitrophenol	27UJ	ug/l
Dibenzo(a,h)anthracene	5U	ug/l
Benzo(a)anthracene	2U	ug/l
4-Chloro-3-Methylphenol	11UJ	ug/l
Benzoic acid	27UJ	ug/l
Hexachloroethane	2U	ug/l
Hexachlorocyclopentadi+	11U	ug/l
Isophorone	2U	ug/l
Acenaphthene	2U	ug/l
Diethylphthalate	2UJ	ug/l
Di-n-Butylphthalate	2UJ	ug/l
Phenanthrene	2U	ug/l
Butylbenzylphthalate	5UJ	ug/l
N-Nitrosodiphenylamine	27UJ	ug/l
Fluorene	2U	ug/l
Carbazole	11UJ	ug/l
Hexachlorobutadiene	5U	ug/l
Pentachlorophenol	11U	ug/l
2,4,6-Trichlorophenol	5U	ug/l
2-Nitroaniline	5U	ug/l
2-Nitrophenol	5U	ug/l
Naphthalene, 1-Methyl-	2U	ug/l
Naphthalene	2U	ug/l
2-Methylnaphthalene	2U	ug/l
2-Chloronaphthalene	2U	ug/l
3,3'-Dichlorobenzidine	54U	ug/l
2-Methylphenol	2U	ug/l
1,2-Dichlorobenzene	2U	ug/l
o-Chlorophenol (2-Chlo+	2U	ug/l
2,4,5-Trichlorophenol	11U	ug/l
Nitrobenzene	2U	ug/l
3-Nitroaniline	REJ	ug/l
4-Nitroaniline	27U	ug/l
4-Nitrophenol	13U	ug/l
Benzyl Alcohol	43UJ	ug/l
4-Bromophenyl-phenylet+	2U	ug/l
2,4-Dimethylphenol	2U	ug/l
4-Methylphenol	2U	ug/l
1,4-Dichlorobenzene	2U	ug/l
4-Chloroaniline	27U	ug/l
Phenol	2U	ug/l
bis(2-Chloroethyl)Ether	2U	ug/l
bis(2-Chloroethoxy)Met+	2U	ug/l
BIS(2-ETHYLHEXYL) PHTH+	2UJ	ug/l

B/N/Acid Scan *** Continued ***	Water-Total Result	Units
Di-n-Octyl Phthalate	2UJ	ug/l
Hexachlorobenzene	2U	ug/l
Anthracene	2U	ug/l
1,2,4-Trichlorobenzene	2U	ug/l
2,4-Dichlorophenol	2U	ug/l
2,4-Dinitrotoluene	5UJ	ug/l
Pyrene	2U	ug/l
Dimethylphthalate	2U	ug/l
Dibenzofuran	2U	ug/l
Benzo(ghi)perylene	2U	ug/l
Indeno(1,2,3-cd)pyrene	2U	ug/l
Benzo(b)fluoranthene	2U	ug/l
Fluoranthene	2U	ug/l
Benzo(k)fluoranthene	2U	ug/l
Acenaphthylene	2U	ug/l
Chrysene	2U	ug/l
Retene	2U	ug/l
4,6-Dinitro-2-methylph+	27UJ	ug/l
1,3-Dichlorobenzene	2U	ug/l
2,6-Dinitrotoluene	5U	ug/l
N-Nitroso-di-n-Propyla+	2U	ug/l
4-Chlorophenyl-phenyle+	2U	ug/l
bis(2-Chloroisopropyl)+	2U	ug/l
Surrog: 2-Fluorobiphen+	85	% Recov
Surrog: 2-Fluorophenol	74	% Recov
D4-1,2-Dichlorobenzene	53	% Recov
Surrog: D14-Terphenyl	76	% Recov
PYRENE-D10 (SS)	80	% Recov
Surrog: D5-Nitrobenzene	81	% Recov
Surrog: D5-Phenol	62	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: M2R Account: FA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352353 Description: WSW02 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 09:15

B/N/Acid Scan	Water-Total Result	Units
Benzo(a)pyrene	2U	ug/l
2,4-Dinitrophenol	25UJ	ug/l
Dibenzo(a,h)anthracene	5U	ug/l
Benzo(a)anthracene	2U	ug/l
4-Chloro-3-Methylphenol	10UJ	ug/l
Benzoic acid	25UJ	ug/l
Hexachloroethane	2UJ	ug/l
Hexachlorocyclopentadi+	10UJ	ug/l
Isophorone	2U	ug/l
Acenaphthene	2U	ug/l
Diethylphthalate	2UJ	ug/l
Di-n-Butylphthalate	2UJ	ug/l
Phenanthrene	2U	ug/l
Butylbenzylphthalate	5UJ	ug/l
N-Nitrosodiphenylamine	25UJ	ug/l
Fluorene	2U	ug/l
Carbazole	10UJ	ug/l
Hexachlorobutadiene	5U	ug/l
Pentachlorophenol	10U	ug/l
2,4,6-Trichlorophenol	5U	ug/l
2-Nitroaniline	5U	ug/l
2-Nitrophenol	5U	ug/l
Naphthalene, 1-Methyl-	2U	ug/l
Naphthalene	2U	ug/l
2-Methylnaphthalene	2U	ug/l
2-Chloronaphthalene	2U	ug/l
3,3'-Dichlorobenzidine	50U	ug/l
2-Methylphenol	2U	ug/l
1,2-Dichlorobenzene	2U	ug/l
o-Chlorophenol (2-Chlo+	2U	ug/l
2,4,5-Trichlorophenol	10U	ug/l
Nitrobenzene	2U	ug/l
3-Nitroaniline	REJ	ug/l
4-Nitroaniline	25U	ug/l
4-Nitrophenol	12U	ug/l
Benzyl Alcohol	40UJ	ug/l
4-Bromophenyl-phenylet+	2U	ug/l
2,4-Dimethylphenol	2U	ug/l
4-Methylphenol	2U	ug/l
1,4-Dichlorobenzene	2U	ug/l
4-Chloroaniline	25U	ug/l
Phenol	2U	ug/l
bis(2-Chloroethyl)Ether	2U	ug/l
bis(2-Chloroethoxy)Met+	2U	ug/l
BIS(2-ETHYLHEXYL) PHTH+	2UJ	ug/l

B/N/Acid Scan *** Continued ***	Water-Total Result	Units
Di-n-Octyl Phthalate	2UJ	ug/l
Hexachlorobenzene	2U	ug/l
Anthracene	2U	ug/l
1,2,4-Trichlorobenzene	2U	ug/l
2,4-Dichlorophenol	2U	ug/l
2,4-Dinitrotoluene	5UJ	ug/l
Pyrene	2U	ug/l
Dimethylphthalate	2U	ug/l
Dibenzofuran	2U	ug/l
Benzo(ghi)perylene	2U	ug/l
Indeno(1,2,3-cd)pyrene	2U	ug/l
Benzo(b)fluorenthene	2U	ug/l
Fluoranthene	2U	ug/l
Benzo(k)fluoranthene	2U	ug/l
Acenaphthylene	2U	ug/l
Chrysene	2U	ug/l
Retene	2U	ug/l
4,6-Dinitro-2-methylph+	25UJ	ug/l
1,3-Dichlorobenzene	2U	ug/l
2,6-Dinitrotoluene	5U	ug/l
N-Nitroso-di-n-Propyla+	2U	ug/l
4-Chlorophenyl-phenyle+	2U	ug/l
bis(2-Chloroisopropyl)+	2U	ug/l
Surrog: 2-Fluorobiphen+	89	% Recov
Surrog: 2-Fluorophenol	74	% Recov
D4-1,2-Dichlorobenzene	56	% Recov
Surrog: D14-Terphenyl	84	% Recov
PYRENE-D10 (SS)	86	% Recov
Surrog: D5-Nitrobenzene	84	% Recov
Surrog: D5-Phenol	58	% Recov

B/N/Acid Scan Matrix Spike #1	Water-Total Result	Units
Benzo(a)pyrene	73	% Recov
2,4-Dinitrophenol	64J	% Recov
Dibenzo(a,h)anthracene	71	% Recov
Benzo(a)anthracene	74	% Recov
4-Chloro-3-Methylphenol	69J	% Recov
Benzoic acid	5J	% Recov
Hexachloroethane	48	% Recov
Hexachlorocyclopentadi+	20	% Recov
Isophorone	72	% Recov

B/N/Acid Scan *** Continued *** Matrix Spike #1	Water-Total Result	Units
Acenaphthene	74	% Recov
Diethylphthalate	81J	% Recov
Di-n-Butylphthalate	75J	% Recov
Phenanthrene	78	% Recov
Butylbenzylphthalate	67J	% Recov
N-Nitrosodiphenylamine	124J	% Recov
Fluorene	78	% Recov
Carbazole	NAP	% Recov
Hexachlorobutadiene	53	% Recov
Pentachlorophenol	71	% Recov
2,4,6-Trichlorophenol	66	% Recov
2-Nitroaniline	82	% Recov
2-Nitrophenol	90	% Recov
Naphthalene, 1-Methyl-	NAP	% Recov
Naphthalene	70	% Recov
2-Methylnaphthalene	52	% Recov
2-Chloronaphthalene	70	% Recov
3,3'-Dichlorobenzidine	NAP	% Recov
2-Methylphenol	74	% Recov
1,2-Dichlorobenzene	60	% Recov
o-Chlorophenol (2-Chlo+	80	% Recov
2,4,5-Trichlorophenol	77	% Recov
Nitrobenzene	76	% Recov
3-Nitroaniline	REJ	% Recov
4-Nitroaniline	81	% Recov
4-Nitrophenol	58	% Recov
Benzyl Alcohol	66J	% Recov
4-Bromophenyl-phenylet+	72	% Recov
2,4-Dimethylphenol	68	% Recov
4-Methylphenol	74	% Recov
1,4-Dichlorobenzene	59	% Recov
4-Chloroaniline	110	% Recov
Phenol	61	% Recov
bis(2-Chloroethyl)Ether	80	% Recov
bis(2-Chloroethoxy)Met+	75	% Recov
BIS(2-ETHYLHEXYL) PHTH+	63J	% Recov
Di-n-Octyl Phthalate	62J	% Recov
Hexachlorobenzene	75	% Recov
Anthracene	79	% Recov
1,2,4-Trichlorobenzene	59	% Recov
2,4-Dichlorophenol	67	% Recov
2,4-Dinitrotoluene	78J	% Recov
Pyrene	78	% Recov
Dimethylphthalate	80	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352353 Description: WSW02 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 09:15

B/N/Acid Scan *** Continued *** Matrix Spike #1	Water-Total Result	Units
Dibenzofuran	78	% Recov
Benzo(ghi)perylene	77	% Recov
Indeno(1,2,3-cd)pyrene	71	% Recov
Benzo(b)fluoranthene	77	% Recov
Fluoranthene	78	% Recov
Benzo(k)fluoranthene	75	% Recov
Acenaphthylene	87	% Recov
Chrysene	72	% Recov
Retene	NAF	% Recov
4,6-Dinitro-2-methylph+	75J	% Recov
1,3-Dichlorobenzene	57	% Recov
2,6-Dinitrotoluene	82	% Recov
N-Nitroso-di-n-Propyla+	72	% Recov
D4-1,2-Dichlorobenzene	40	% Recov
4-Chlorophenyl-phenyle+	72	% Recov
bis(2-Chloroisopropyl)+	75	% Recov
Surrog: 2-Fluorobiphen+	72	% Recov
Surrog: 2-Fluorophenol	64	% Recov
Surrog: D14-Terphenyl	63	% Recov
PYRENE-D10 (SS)	66	% Recov
Surrog: D5-Nitrobenzene	69	% Recov
Surrog: D5-Phenol	55	% Recov

B/N/Acid Scan Matrix Spike #2	Water-Total Result	Units
Benzo(a)pyrene	81	% Recov
2,4-Dinitrophenol	98J	% Recov
Dibenzo(a,h)anthracene	82	% Recov
Benzo(a)anthracene	85	% Recov
4-Chloro-3-Methylphenol	82J	% Recov
Benzoic acid	21J	% Recov
Hexachloroethane	60	% Recov
Hexachlorocyclopentadi+	23	% Recov
Isophorone	86	% Recov
Acenaphthene	86	% Recov
Diethylphthalate	92J	% Recov
Di-n-Butylphthalate	86J	% Recov
Phenanthrene	90	% Recov
Butylbenzylphthalate	80J	% Recov
N-Nitrosodiphenylamine	131J	% Recov
Fluorene	90	% Recov
Carbazole	NAF	% Recov

B/N/Acid Scan *** Continued *** Matrix Spike #2	Water-Total Result	Units
Hexachlorobutadiene	67	% Recov
Pentachlorophenol	86	% Recov
2,4,6-Trichlorophenol	76	% Recov
2-Nitroaniline	99	% Recov
2-Nitrophenol	106	% Recov
Naphthalene, 1-Methyl-	NAF	% Recov
Naphthalene	80	% Recov
2-Methylnaphthalene	59	% Recov
2-Chloronaphthalene	79	% Recov
3,3'-Dichlorobenzidine	NAF	% Recov
2-Methylphenol	85	% Recov
1,2-Dichlorobenzene	70	% Recov
o-Chlorophenol (2-Chlo+	90	% Recov
2,4,5-Trichlorophenol	89	% Recov
Nitrobenzene	89	% Recov
3-Nitroaniline	REJ	% Recov
4-Nitroaniline	92	% Recov
4-Nitrophenol	68	% Recov
Benzyl Alcohol	80J	% Recov
4-Bromophenyl-phenylet+	84	% Recov
2,4-Dimethylphenol	81	% Recov
4-Methylphenol	86	% Recov
1,4-Dichlorobenzene	69	% Recov
4-Chloroaniline	130	% Recov
Phenol	73	% Recov
bis(2-Chloroethyl)Ether	92	% Recov
bis(2-Chloroethoxy)Met+	88	% Recov
BIS(2-ETHYLHEXYL) PHTH+	74J	% Recov
Di-n-Octyl Phthalate	73J	% Recov
Hexachlorobenzene	88	% Recov
Anthracene	90	% Recov
1,2,4-Trichlorobenzene	68	% Recov
2,4-Dichlorophenol	80	% Recov
2,4-Dinitrotoluene	92J	% Recov
Pyrene	94	% Recov
Dimethylphthalate	90	% Recov
Dibenzofuran	88	% Recov
Benzo(ghi)perylene	87	% Recov
Indeno(1,2,3-cd)pyrene	82	% Recov
Benzo(b)fluoranthene	88	% Recov
Fluoranthene	88	% Recov
Benzo(k)fluoranthene	87	% Recov
Acenaphthylene	99	% Recov
Chrysene	86	% Recov

B/N/Acid Scan *** Continued *** Matrix Spike #2	Water-Total Result	Units
Retene	NAF	% Recov
4,6-Dinitro-2-methylph+	91J	% Recov
1,3-Dichlorobenzene	68	% Recov
2,6-Dinitrotoluene	95	% Recov
N-Nitroso-di-n-Propyla+	84	% Recov
D4-1,2-Dichlorobenzene	55	% Recov
4-Chlorophenyl-phenyle+	82	% Recov
bis(2-Chloroisopropyl)+	91	% Recov
Surrog: 2-Fluorobiphen+	91	% Recov
Surrog: 2-Fluorophenol	78	% Recov
Surrog: D14-Terphenyl	79	% Recov
PYRENE-D10 (SS)	85	% Recov
Surrog: D5-Nitrobenzene	86	% Recov
Surrog: D5-Phenol	69	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352354 Description: WHC01 Source: Well (Test/Observation)

Begin Date: 92/08/26 10:20

B/N/Acid Scan	Water-Total Result	Units
Benzo(a)pyrene	41U	ug/l
2,4-Dinitrophenol	510UJ	ug/l
Dibenzo(a,h)anthracene	100U	ug/l
Benzo(a)anthracene	41U	ug/l
4-Chloro-3-Methylphenol	200UJ	ug/l
Benzoic acid	510UJ	ug/l
Hexachloroethane	41U	ug/l
Hexachlorocyclopentadi+	200U	ug/l
Isophorone	41U	ug/l
Acenaphthene	54 *	ug/l
Diethylphthalate	41UJ	ug/l
Di-n-Butylphthalate	41UJ	ug/l
Phenanthrene	230 *	ug/l
Butylbenzylphthalate	100UJ	ug/l
N-Nitrosodiphenylamine	510UJ	ug/l
Fluorene	150 *	ug/l
Carbazole	200UJ	ug/l
Hexachlorobutadiene	100U	ug/l
Pentachlorophanol	200U	ug/l
2,4,6-Trichlorophenol	100U	ug/l
2-Nitroaniline	100U	ug/l
2-Nitrophenol	100U	ug/l
Naphthalene, 1-Methyl-	840 *	ug/l
Naphthalene	130 *	ug/l
2-Methylnaphthalene	630 *	ug/l
2-Chloronaphthalene	41U	ug/l
3,3'-Dichlorobenzidine	1000U	ug/l
2-Methylphenol	41U	ug/l
1,2-Dichlorobenzene	41U	ug/l
o-Chlorophenol (2-Chlo+	41U	ug/l
2,4,5-Trichlorophenol	200U	ug/l
Nitrobenzene	41U	ug/l
3-Nitroaniline	REJ	ug/l
4-Nitroaniline	510U	ug/l
4-Nitrophenol	260U	ug/l
Benzyl Alcohol	820UJ	ug/l
4-Bromophenyl-phenylet+	41U	ug/l
2,4-Dimethylphenol	41U	ug/l
4-Methylphenol	41U	ug/l
1,4-Dichlorobenzene	41U	ug/l
4-Chloroaniline	510U	ug/l
Phenol	41U	ug/l
bis(2-Chloroethyl)Ether	41U	ug/l
bis(2-Chloroethoxy)Met+	41U	ug/l
BIS(2-ETHYLHEXYL) PHTH+	41UJ	ug/l

B/N/Acid Scan *** Continued ***	Water-Total Result	Units
Di-n-Octyl Phthalate	41UJ	ug/l
Hexachlorobenzene	41U	ug/l
Anthracene	41U	ug/l
1,2,4-Trichlorobenzene	41U	ug/l
2,4-Dichlorophenol	41U	ug/l
2,4-Dinitrotoluene	100UJ	ug/l
Pyrene	19J*	ug/l
Dimethylphthalate	41U	ug/l
Dibenzofuran	41U	ug/l
Benzo(ghi)perylene	41U	ug/l
Indeno(1,2,3-cd)pyrene	41U	ug/l
Benzo(b)fluoranthene	41U	ug/l
Fluoranthene	15J*	ug/l
Benzo(k)fluoranthene	41U	ug/l
Acenaphthylene	41U	ug/l
Chrysene	41U	ug/l
Retene	41U	ug/l
4,6-Dinitro-2-methylph+	510UJ	ug/l
1,3-Dichlorobenzene	41U	ug/l
2,6-Dinitrotoluene	100U	ug/l
N-Nitroso-di-n-Propyla+	41U	ug/l
4-Chlorophenyl-phenyle+	41U	ug/l
bis(2-Chloroisopropyl)+	41U	ug/l
Surrog: 2-Fluorobiphen+	114	% Recov
Surrog: 2-Fluorophenol	59	% Recov
D4-1,2-Dichlorobenzene	116	% Recov
Surrog: D14-Terphenyl	90	% Recov
PYRENE-D10 (SS)	77	% Recov
Surrog: D5-Nitrobenzene	0	% Recov
Surrog: D5-Phenol	0	% Recov

Tent Ident - B/N/Aci	Water-Total Result	Units
NAPHTHALENE, 1,5-DIMET+	430NJ*	ug/l
NAPHTHALENE, 1,2-DIMET+	510NJ*	ug/l
NAPHTHALENE, 1,3-DIMET+	1200NJ*	ug/l
NAPHTHALENE, 2,7-DIMET+	1000NJ*	ug/l
NAPHTHALENE, 2,3,6-TRI+	590NJ*	ug/l
NAPHTHALENE, 2-ETHYL-	420NJ*	ug/l
UNKNOWN HYDROCARBONS (+	220000NJ*	ug/l
NAPHTHALENE, 1,4,5-TRI+	460NJ*	ug/l
NAPHTHALENE, 1,4,6-TRI+	480NJ*	ug/l

Tent Ident - B/N/Aci *** Continued ***	Water-Total Result	Units
NAPHTHALENE, 1,6,7-TRI+	480NJ*	ug/l

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Blank ID: BW2245D1

B/N/Acid Scan Blank #1	Water-Total Result	Units
Benzo(a)pyrene	8U	ug/l
2,4-Dinitrophenol	100UJ	ug/l
Dibenzo(a,h)anthracene	20U	ug/l
Benzo(a)anthracene	8U	ug/l
4-Chloro-3-Methylphenol	40UJ	ug/l
Benzoic acid	100UJ	ug/l
Hexachloroethane	8U	ug/l
Hexachlorocyclopentadi+	40U	ug/l
Isophorone	8U	ug/l
Acenaphthene	8U	ug/l
Diethylphthalate	8UJ	ug/l
Di-n-Butylphthalate	8UJ	ug/l
Phenanthrene	8U	ug/l
Butylbenzylphthalate	20UJ	ug/l
N-Nitrosodiphenylamine	0.6J*	ug/l
Fluorene	8U	ug/l
Carbazole	40UJ	ug/l
Hexachlorobutadiene	20U	ug/l
Pentachlorophenol	40U	ug/l
2,4,6-Trichlorophenol	20U	ug/l
2-Nitroaniline	20U	ug/l
2-Nitrophenol	20U	ug/l
Naphthalene, 1-Methyl-	8U	ug/l
Naphthalene	8U	ug/l
2-Methylnaphthalene	8U	ug/l
2-Chloronaphthalene	8U	ug/l
3,3'-Dichlorobenzidine	200U	ug/l
2-Methylphenol	8U	ug/l
1,2-Dichlorobenzene	8U	ug/l
o-Chlorophenol (2-Chlo+	8U	ug/l
2,4,5-Trichlorophenol	40U	ug/l
Nitrobenzene	8U	ug/l
3-Nitroaniline	REJ	ug/l
4-Nitroaniline	100U	ug/l
4-Nitrophenol	50U	ug/l
Benzyl Alcohol	160UJ	ug/l
4-Bromophenyl-phenylet+	8U	ug/l
2,4-Dimethylphenol	8U	ug/l
4-Methylphenol	8U	ug/l
1,4-Dichlorobenzene	8U	ug/l
4-Chloroaniline	100U	ug/l
Phenol	8U	ug/l
bis(2-Chloroethyl)Ether	8U	ug/l
bis(2-Chloroethoxy)Met+	8U	ug/l
BIS(2-ETHYLHEXYL) PHTH+	8UJ	ug/l

B/N/Acid Scan *** Continued *** Blank #1	Water-Total Result	Units
Di-n-Octyl Phthalate	8UJ	ug/l
Hexachlorobenzene	8U	ug/l
Anthracene	8U	ug/l
1,2,4-Trichlorobenzene	8U	ug/l
2,4-Dichlorophenol	8U	ug/l
2,4-Dinitrotoluene	20UJ	ug/l
Pyrene	8U	ug/l
Dimethylphthalate	8U	ug/l
Dibenzofuran	8U	ug/l
Benzo(ghi)perylene	8U	ug/l
Indeno(1,2,3-cd)pyrene	8U	ug/l
Benzo(b)fluoranthene	8U	ug/l
Fluoranthene	8U	ug/l
Benzo(k)fluoranthene	8U	ug/l
Acenaphthylene	8U	ug/l
Chrysene	8U	ug/l
Retene	8U	ug/l
4,6-Dinitro-2-methylph+	100UJ	ug/l
1,3-Dichlorobenzene	8U	ug/l
2,6-Dinitrotoluene	20U	ug/l
N-Nitroso-di-n-Propyla+	8U	ug/l
4-Chlorophenyl-phenyle+	8U	ug/l
bis(2-Chloroisopropyl)+	8U	ug/l
Surrog: 2-Fluorobiphen+	69	% Recov
Surrog: 2-Fluorophenol	81	% Recov
D4-1,2-Dichlorobenzene	26	% Recov
Surrog: D14-Terphenyl	83	% Recov
PYRENE-D10 (SS)	87	% Recov
Surrog: D5-Nitrobenzene	82	% Recov
Surrog: D5-Phenol	74	% Recov

Tent Idant - B/N/Aci Blank #1	Water-Total Result	Units
Triphenyl phosphate	1.8NJ*	ug/l

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Blank ID: BW2245D2

B/N/Acid Scan Blank #2	Water-Total Result	Units
Benzo(a)pyrene	8U	ug/l
2,4-Dinitrophenol	100UJ	ug/l
Dibenzo(a,h)anthracene	20U	ug/l
Benzo(a)anthracene	8U	ug/l
4-Chloro-3-Methylphenol	40U	ug/l
Benzoic acid	100UJ	ug/l
Hexachloroethane	8U	ug/l
Hexachlorocyclopentadi+	40U	ug/l
Isophorone	8U	ug/l
Acenaphthene	0.4J*	ug/l
Diethylphthalate	8U	ug/l
Di-n-Butylphthalate	8U	ug/l
Phenanthrene	1J*	ug/l
Butylbenzylphthalate	20U	ug/l
N-Nitrosodiphenylamine	100UJ	ug/l
Fluorene	8U	ug/l
Carbazole	40UJ	ug/l
Hexachlorobutadiene	20U	ug/l
Pentachlorophenol	40U	ug/l
2,4,6-Trichlorophenol	20U	ug/l
2-Nitroaniline	20U	ug/l
2-Nitrophenol	20U	ug/l
Naphthalene, 1-Methyl-	4J*	ug/l
Naphthalene	0.6J*	ug/l
2-Methylnaphthalene	3J*	ug/l
2-Chloronaphthalene	8U	ug/l
3,3'-Dichlorobenzidine	200U	ug/l
2-Methylphenol	8U	ug/l
1,2-Dichlorobenzene	8U	ug/l
o-Chlorophenol (2-Chlo+	8U	ug/l
2,4,5-Trichlorophenol	40U	ug/l
Nitrobenzene	8U	ug/l
3-Nitroaniline	100U	ug/l
4-Nitroaniline	100U	ug/l
4-Nitrophenol	50U	ug/l
Benzyl Alcohol	160U	ug/l
4-Bromophenyl-phenylet+	8U	ug/l
2,4-Dimethylphenol	8U	ug/l
4-Methylphenol	8U	ug/l
1,4-Dichlorobenzene	8U	ug/l
4-Chloroaniline	100U	ug/l
Phenol	8U	ug/l
bis(2-Chloroethyl)Ether	8U	ug/l
bis(2-Chloroethoxy)Met+	8U	ug/l
BIS(2-ETHYLHEXYL) PHTH+	0.9J*	ug/l

B/N/Acid Scan Blank #2 *** Continued ***	Water-Total Result	Units
Di-n-Octyl Phtbalate	8UJ	ug/l
Hexachlorobenzene	8U	ug/l
Anthracene	8U	ug/l
1,2,4-Trichlorobenzene	8U	ug/l
2,4-Dichlorophenol	8U	ug/l
2,4-Dinitrotoluene	20U	ug/l
Pyrene	8U	ug/l
Dimethylphthalate	8U	ug/l
Dibenzofuran	8U	ug/l
Benzo(ghi)perylene	8U	ug/l
Indeno(1,2,3-cd)pyrene	8U	ug/l
Benzo(b)fluoranthene	8U	ug/l
Fluoranthene	8U	ug/l
Benzo(k)fluoranthene	8U	ug/l
Acenaphthylene	8U	ug/l
Chrysene	8U	ug/l
Retene	8U	ug/l
4,6-Dinitro-2-methylph+	100UJ	ug/l
1,3-Dichlorobenzene	8U	ug/l
2,6-Dinitrotoluene	20U	ug/l
N-Nitroso-di-n-Propyla+	8U	ug/l
4-Chlorophenyl-phenyle+	8U	ug/l
bis(2-Chloroisopropyl)+	8U	ug/l
Surrog: 2-Fluorobiphen+	68	% Recov
Surrog: 2-Fluorophenol	80	% Recov
D4-1,2-Dichlorobenzene	29	% Recov
Surrog: D14-Terphenyl	81	% Recov
PYRENE-D10 (8S)	84	% Recov
Surrog: D5-Nitrobenzene	74	% Recov
Surrog: D5-Phenol	76	% Recov

Tent Ident - B/N/Aci Blank #2	Water-Total Result	Units
Triphenyl phosphate	3.0NJ*	ug/l
NAPHTHALENE, 1,5-DIMET+	3.6NJ*	ug/l
NAPHTHALENE, 1,2-DIMET+	5.9NJ*	ug/l
NAPHTHALENE, 1,3-DIMET+	5.4NJ*	ug/l
UNKNOWN HYDROCARBONS (+	92NJ*	ug/l
NAPHTHALENE, 1,4,5-TRI+	2.8NJ*	ug/l
NAPHTHALENE, 1,4,6-TRI+	3.4NJ*	ug/l
NAPHTHALENE, 1,6,7-TRI+	2.5NJ*	ug/l

(Sample Complete)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 BEACH DR. EAST
PORT ORCHARD, WASHINGTON 98366

RECEIVED
OCT - 5 1992
URS CONSULTANTS

October 1, 1992

MEMORANDUM

SUBJECT: Report of Data Validation for the Avery Railroad Investigation, VOA analysis of samples 92352350, 92352351, 92352352, 92352353 and 92352354.

FROM: Joe Blazevich, Program Manager
Environmental Chemistry Program

TO: Monica Rolluda, Project Officer
Avery Railroad Investigation

DCL#: 62760.05..119 1992
FILE NO. 15.61
CC:
PM DPM SM X C/SM FILE X

CC: Brad Woodle USEPA
Kara Steward, URS 10/2/92 ky

The following is a QA data review of the VOA analysis of samples collected for the Avery Railroad Investigation and analyzed at the Manchester Laboratory. This review covers samples.

92352350 92352351 92352352 92352353 92352354

The project code for these samples is TEC575AB. The account number is TFA10PUZZ.

Data Qualification

The following comments refer to laboratory performance in meeting quality control specifications outlined in the CLP Statement of Work, Organic Analysis, revision 1/91.

I. Holding Times: Acceptable.

The samples were held seven days or less between collection and analysis. No data qualifiers were required on the basis of holding time data.

II. GC/MS Tuning and Performance: Acceptable

The tuning summary agreed with the raw data. All bromofluorobenzene ion abundance criteria were met. The analyses were preceded by a tune less than 12 hours prior to analysis. No data qualifiers were required on the basis of tuning data.

III. Initial Calibration: Acceptable

An extended seven point calibration curve was constructed on 8/05/92 for most analytes prior to analysis of the sample set. The calculation of the response factors was checked and the

Printed on Recycled Paper

calculation method was correct. All response factors were over 0.05 and the %RSD for all analytes except acetone were 30% or less. The qualifier J or UJ was added to all results for this analyte. No additional data qualifiers were required based on the initial calibration curve.

IV. Continuing Calibration: Acceptable

9/03/92 Samples 92352350, 92352351, 92352352, 92352353, 92352354, Matrix Spikes 92352354Y, 923523542 and Blank IBW2247.

The response factors for all target analytes were above 0.05. One analyte had a %diff. value greater than the 30% maximum. Results for this analyte, chloromethane, were assigned the data qualifier J or UJ. No additional data qualifiers are required on the basis of the continuing standard.

V. Blanks: Acceptable

A blank was analyzed prior to the analysis of samples and matrix spikes. Although some target analytes were detected in the blanks, most were far below the reporting limit. Analytes detected in the samples were reported without qualification if the sample result area integration exceeded ten times that of the blank for common VOA contaminates (e.g. acetone, 2-butanone and methylene chloride) or five times that of the blank for the other target analytes. If not detected in the blank, the analyte was reported without qualification if detected in the sample or with the appropriate quantitation limit and the qualifier U or UJ if not detected in the sample.

VI. Surrogates: Acceptable

All surrogate recoveries were within specification for all blanks, matrix spikes and samples. No data qualifiers were assigned based on surrogate recovery data.

VII. Matrix Spike and Matrix Spike Duplicate (MS/MSD): Acceptable

All MS and MSD recoveries were within CLP and Region Ten acceptance ranges except the recovery of one or both spike samples for trans-1,3-dichloropropene and cis-1,3-dichloropropene fell outside the 50-150% Region Ten acceptance range. All %diff. were acceptable. The qualifier J was assigned to these analytes for sample 92352354. No additional data qualifiers were required based on matrix spike recoveries.

VIII. Internal Standards Performance: Acceptable

The retention time variations of all internal standards were within 30 seconds of the daily standard, which is acceptable. The %area of all internal standards fell within the specified 50% to 200% of the daily standard. No data qualifiers were required on the basis of internal standards data.

IX. TCL Compound Identification: Acceptable

All TCL compounds' relative retention times were within 0.06 units of the related standards' in the continuing calibration standard or were judged acceptable. All criteria were met for mass spectral ion matching and abundance matching or were judged acceptable.

X. Compound Quantitation: Acceptable

Compound quantitation was evaluated correctly. The appropriate internal standards were used. The correct quantitation ions and relative response factors were used. Some analytes were detected in this sample set at levels below the lowest calibration concentration of the initial calibration curve. Since the Practical Quantitation Limit is based on this lowest initial calibration standard, these values were assigned the J qualifier. No additional qualifiers are required on the basis of compound quantitation.

XI. Tentatively Identified Compounds: Acceptable

The spectra for all tentatively identified compounds met criteria for ion matching and ion abundance matching or were judged acceptable.

Overall Assessment for the Case

The usefulness of the data is based on the criteria outlined in "Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses, (revision 6/91)."

All of the requirements for data qualifiers from the preceding sections were accumulated. Each sample data summary sheet and each compound were checked for positive or negative results. From this the overall need for data qualifiers for each analysis was determined. In cases where more than one of the preceding sections required data qualifiers, the most restrictive qualifier has been added to the data.

In general, all unqualified data can be used without restriction. The usefulness of qualified data should be treated according to the severity of the qualifier. Each qualifier has been defined below. Should questions arise regarding the qualification of data and its relation to the usefulness, the reader is encouraged to contact the Region Ten Laboratory.

DATA QUALIFIERS

U - The analyte was not detected at or above the reported result.

J - The analyte was positively identified. The associated numerical result is an estimate.

EXP - The result is equal to the number before EXP times 10 to the power of the number after EXP. As an example 3EXP6 equals 3×10^6.

REJ - The data are unusable for all purposes.

N - There is evidence the analyte is present in this sample.

NJ - There is evidence that the analyte is present. The associated numerical result is an estimate.

UJ - The analyte was not detected at or above the reported estimated result. The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.

NAF - Not analyzed for.

* - The analyte was present in the sample. (Visual aid to locate detected compounds on the report sheet.)

Project: TEG-575A AVERY RR DUMP AND ROUNDHOUSE Officer: M2R Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352350 Description: WBW01 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 08:30

VOA - PP Scan (GCMS)	Water-Total Result	Units
Carbon Tetrachlorida	1U	ug/l
Acetone	10J	ug/l
Chloroform	1U	ug/l
Benzene	1U	ug/l
1,1,1-Trichloroethane	1U	ug/l
Bromomethane	1U	ug/l
Chloromethane	10J	ug/l
Dibromomethane	1U	ug/l
Bromochloromethane	1U	ug/l
Chloroethane	1U	ug/l
Vinyl Chlorida	1U	ug/l
Methylene Chloride	5U	ug/l
Carbon Disulfide	5U	ug/l
Bromoform	1U	ug/l
Bromodichloromethane	1U	ug/l
1,1-Dichloroethane	1U	ug/l
1,1-Dichloroethene	1U	ug/l
Trichlorofluoromethane	1U	ug/l
Methane, Dichlorodiflu+	0.7J*	ug/l
1,2-Dichloropropane	1U	ug/l
2-Butanone	5U	ug/l
1,1,2-Trichloroethane	1U	ug/l
Ethene, trichloro-	1U	ug/l
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l
1,2,3-Trichlorobenzene	1U	ug/l
Hexachlorobutadiene	1U	ug/l
Naphthalene	1U	ug/l
2-Chlorotoluene	1U	ug/l
1,2-Dichlorobenzene	1U	ug/l
1,2,4-Trimethylbenzene	1U	ug/l
1,2-Dibromo-3-chloropr+	5U	ug/l
1,2,3-Trichloropropene	1U	ug/l
Tert-Butylbenzene	1U	ug/l
Isopropylbenzene (Cume+	1U	ug/l
p-Isopropyltoluene	1U	ug/l
Ethylbenzene	1U	ug/l
BENZENE, ETHENYL-(STYR+	1U	ug/l
BENZENE, PROPYL-	1U	ug/l
Butylbenzene	1U	ug/l
4-Chlorotoluene	1U	ug/l
1,4-Dichlorobenzene	1U	ug/l
1,2-Dibromoethane (EDB)	1U	ug/l
1,2-Dichloroethane	1U	ug/l
4-Methyl-2-Pentanone(M+	1U	ug/l
1,3,5-Trimethylbenzene	1U	ug/l

VOA - PP Scan (GCMS) *** Continued ***	Water-Total Result	Units
Bromobenzene	1U	ug/l
Toluene	1U	ug/l
Chlorobenzene	1U	ug/l
1,2,4-Trichlorobenzene	1U	ug/l
Dibromochloromethane	1U	ug/l
Tetrachloroethene	1U	ug/l
Sec-Butylbenzene	1U	ug/l
1,3-Dichloropropane	1U	ug/l
Cis-1,2-Dichloroethane	1U	ug/l
trans-1,2-Dichloroethe+	1U	ug/l
1,3-Dichlorobenzene	1U	ug/l
1,1-Dichloropropene	1U	ug/l
2-Hexanone	1U	ug/l
2,2-Dichloropropane	1U	ug/l
Ethane, 1,1,1,2-Tetrac+	1U	ug/l
Total Xylenes	1U	ug/l
cis-1,3-Dichloropropene	1U	ug/l
trans-1,3-Dichloroprop+	1U	ug/l
p-Bromofluorobenzene	100	% Recov
D4-1,2-Dichlorobenzene	99	% Recov
d8-Toluene	104	% Recov
d4-1,2-Dichloroethane	103	% Recov

Tent Ident - VOA Sca	Water-Total Result	Units
1-PROPENE, 2-METHYL-	0.42NJ*	ug/l

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: M2R Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352351 Description: WAW01 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 08:37

VOA - PP Scan (GCMS)	Water-Total Result	Units
Carbon Tetrachloride	1U	ug/l
Acetone	5UJ	ug/l
Chloroform	1U	ug/l
Benzene	1U	ug/l
1,1,1-Trichloroethane	1U	ug/l
Bromomethane	1U	ug/l
Chloromethane	1UJ	ug/l
Dibromomethane	1U	ug/l
Bromochloromethane	1U	ug/l
Chloroethane	1U	ug/l
Vinyl Chloride	1U	ug/l
Methylene Chloride	5U	ug/l
Carbon Disulfide	5U	ug/l
Bromoform	1U	ug/l
Bromodichloromethane	1U	ug/l
1,1-Dichloroethane	1U	ug/l
1,1-Dichloroethene	1U	ug/l
Trichlorofluoromethane	1U	ug/l
Methane, Dichlorodiflu+	5U	ug/l
1,2-Dichloropropane	1U	ug/l
2-Butanone	5U	ug/l
1,1,2-Trichloroethane	1U	ug/l
Ethene, trichloro-	1U	ug/l
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l
1,2,3-Trichlorobenzene	1U	ug/l
Hexachlorobutadiene	1U	ug/l
Naphthalene	1U	ug/l
2-Chlorotoluene	1U	ug/l
1,2-Dichlorobenzene	1U	ug/l
1,2,4-Trimethylbenzene	1U	ug/l
1,2-Dibromo-3-chloropr+	5U	ug/l
1,2,3-Trichloropropane	1U	ug/l
Tert-Butylbenzene	1U	ug/l
Isopropylbenzene (Cume+	1U	ug/l
p-Isopropyltoluene	1U	ug/l
Ethylbenzene	1U	ug/l
BENZENE, ETHENYL-(STYR+	1U	ug/l
BENZENE, PROPYL-	1U	ug/l
Butylbenzene	1U	ug/l
4-Chlorotoluene	1U	ug/l
1,4-Dichlorobenzene	1U	ug/l
1,2-Dibromoethane (EDB)	1U	ug/l
1,2-Dichloroethane	1U	ug/l
4-Methyl-2-Pentanone(M+	1U	ug/l
1,3,5-Trimethylbenzene	1U	ug/l

VOA - PP Scan (GCMS) *** Continued ***	Water-Total Result	Units
Bromobenzene	1U	ug/l
Toluene	1U	ug/l
Chlorobenzene	1U	ug/l
1,2,4-Trichlorobenzene	1U	ug/l
Dibromochloromethane	1U	ug/l
Tetrachloroethene	1U	ug/l
Sec-Butylbenzene	1U	ug/l
1,3-Dichloropropane	1U	ug/l
Cis-1,2-Dichloroethene	1U	ug/l
trans-1,2-Dichloroethe+	1U	ug/l
1,3-Dichlorobenzene	1U	ug/l
1,1-Dichloropropene	1U	ug/l
2-Hexanone	1U	ug/l
2,2-Dichloropropane	1U	ug/l
Ethane, 1,1,1,2-Tetrac+	1U	ug/l
Total Xylenes	1U	ug/l
cis-1,3-Dichloropropene	1U	ug/l
trans-1,3-Dichloroprop+	1U	ug/l
p-Bromofluorobenzene	98	% Recov
D4-1,2-Dichlorobenzene	97	% Recov
d8-Toluene	102	% Recov
d4-1,2-Dichloroethane	101	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: PA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352352 Description: WSW01 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 09:15

VOA - PP Scan (GCMS)	Water-Total Result	Units
Carbon Tetrachloride	1U	ug/l
Acetone	5UJ	ug/l
Chloroform	1U	ug/l
Benzene	1U	ug/l
1,1,1-Trichloroethane	1U	ug/l
Bromomethane	1U	ug/l
Chloromethane	1UJ	ug/l
Dibromomethane	1U	ug/l
Bromochloromethane	1U	ug/l
Chloroethane	1U	ug/l
Vinyl Chloride	1U	ug/l
Methylene Chloride	5U	ug/l
Carbon Disulfide	5U	ug/l
Bromoform	1U	ug/l
Bromodichloromethane	1U	ug/l
1,1-Dichloroethane	1U	ug/l
1,1-Dichloroethene	1U	ug/l
Trichlorofluoromethane	1U	ug/l
Methane, Dichlorodiflu+	5U	ug/l
1,2-Dichloropropane	1U	ug/l
2-Butanone	5U	ug/l
1,1,2-Trichloroethane	1U	ug/l
Ethene, trichloro-	1U	ug/l
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l
1,2,3-Trichlorobenzene	1U	ug/l
Hexachlorobutadiene	1U	ug/l
Naphthalene	1U	ug/l
2-Chlorotoluene	1U	ug/l
1,2-Dichlorobenzene	1U	ug/l
1,2,4-Trimethylbenzene	1U	ug/l
1,2-Dibromo-3-chloropr+	5U	ug/l
1,2,3-Trichloropropane	1U	ug/l
Tert-Butylbenzene	1U	ug/l
Isopropylbenzene (Cume+	1U	ug/l
p-Isopropyltoluene	1U	ug/l
Ethylbenzene	1U	ug/l
BENZENE, ETHENYL-(STYR+	1U	ug/l
BENZENE, PROPYL-	1U	ug/l
Butylbenzene	1U	ug/l
4-Chlorotoluene	1U	ug/l
1,4-Dichlorobenzene	1U	ug/l
1,2-Dibromoethane (EDB)	1U	ug/l
1,2-Dichloroethane	1U	ug/l
4-Methyl-2-Pentenone(M+	1U	ug/l
1,3,5-Trimethylbenzene	1U	ug/l

VOA - PP Scan (GCMS) *** Continued ***	Water-Total Result	Units
Bromobenzene	1U	ug/l
Toluene	1U	ug/l
Chlorobenzene	1U	ug/l
1,2,4-Trichlorobenzene	1U	ug/l
Dibromochloromethane	1U	ug/l
Tetrachloroethene	1U	ug/l
Sec-Butylbenzene	1U	ug/l
1,3-Dichloropropane	1U	ug/l
Cis-1,2-Dichloroethene	1U	ug/l
trans-1,2-Dichloroethe+	1U	ug/l
1,3-Dichlorobenzene	1U	ug/l
1,1-Dichloropropene	1U	ug/l
2-Hexanone	1U	ug/l
2,2-Dichloropropane	1U	ug/l
Ethane, 1,1,1,2-Tetrac+	1U	ug/l
Total Xylenes	1U	ug/l
cis-1,3-Dichloropropene	1U	ug/l
trans-1,3-Dichloroprop+	1U	ug/l
p-Bromofluorobenzene	93	% Recov
D4-1,2-Dichlorobenzene	98	% Recov
d8-Toluene	100	% Recov
d4-1,2-Dichloroethane	105	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352353 Description: WSW02 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 09:15

VOA - PP Scan (GCMS)	Water-Total Result	Units
Carbon Tetrachloride	1U	ug/l
Acetone	5UJ	ug/l
Chloroform	1U	ug/l
Benzene	1U	ug/l
1,1,1-Trichloroethane	1U	ug/l
Bromomethane	1U	ug/l
Chloromethane	1UJ	ug/l
Dibromomethane	1U	ug/l
Bromochloromethane	1U	ug/l
Chloroethane	1U	ug/l
Vinyl Chloride	1U	ug/l
Methylene Chloride	5U	ug/l
Carbon Disulfide	5U	ug/l
Bromoform	1U	ug/l
Bromodichloromethane	1U	ug/l
1,1-Dichloroethane	1U	ug/l
1,1-Dichloroethene	1U	ug/l
Trichlorofluoromethane	1U	ug/l
Mathane, Dichlorodiflu+	5U	ug/l
1,2-Dichloropropane	1U	ug/l
2-Butanone	5U	ug/l
1,1,2-Trichloroethane	1U	ug/l
Ethene, trichloro-	1U	ug/l
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l
1,2,3-Trichlorobenzene	1U	ug/l
Hexachlorobutadiene	1U	ug/l
Naphthalene	1U	ug/l
2-Chlorotoluene	1U	ug/l
1,2-Dichlorobenzene	1U	ug/l
1,2,4-Trimethylbenzene	1U	ug/l
1,2-Dibromo-3-chloropr+	5U	ug/l
1,2,3-Trichloropropane	1U	ug/l
Tert-Butylbenzene	1U	ug/l
Isopropylbenzene (Cume+	1U	ug/l
p-Isopropyltoluene	1U	ug/l
Ethylbenzene	1U	ug/l
BENZENE, ETHENYL-(STYR+	1U	ug/l
BENZENE, PROPYL-	1U	ug/l
Butylbenzene	1U	ug/l
4-Chlorotoluene	1U	ug/l
1,4-Dichlorobenzene	1U	ug/l
1,2-Dibromoethane (EDB)	1U	ug/l
1,2-Dichloroethane	1U	ug/l
4-Methyl-2-Pentanone(M+	1U	ug/l
1,3,5-Trimethylbenzene	1U	ug/l

VOA - PP Scan (GCMS) *** Continued ***	Water-Total Result	Units
Bromobenzene	1U	ug/l
Toluene	1U	ug/l
Chlorobenzene	1U	ug/l
1,2,4-Trichlorobenzene	1U	ug/l
Dibromochloromethane	1U	ug/l
Tetrachloroethene	1U	ug/l
Sec-Butylbenzene	1U	ug/l
1,3-Dichloropropane	1U	ug/l
Cis-1,2-Dichloroethene	1U	ug/l
trans-1,2-Dichloroethe+	1U	ug/l
1,3-Dichlorobenzene	1U	ug/l
1,1-Dichloropropene	1U	ug/l
2-Hexanone	1U	ug/l
2,2-Dichloropropane	1U	ug/l
Ethane, 1,1,1,2-Tetrac+	1U	ug/l
Total Xylenes	1U	ug/l
cis-1,3-Dichloropropene	1U	ug/l
trans-1,3-Dichloroprop+	1U	ug/l
p-Bromofluorobenzene	99	% Recov
D4-1,2-Dichlorobenzene	100	% Recov
d8-Toluene	104	% Recov
d4-1,2-Dichloroethane	106	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352354 Description: WHC01 Source: Well (Test/Observation)

Begin Date: 92/08/26 10:20

VOA - PP Scan (GCMS)	Water-Total Result	Units
Carbon Tetrachloride	5U	ug/l
Acetone	13UJ	ug/l
Chloroform	5U	ug/l
Benzene	20 *	ug/l
1,1,1-Trichloroethane	5U	ug/l
Bromomethane	5U	ug/l
Chloromethane	5UJ	ug/l
Dibromomethane	5U	ug/l
Bromochloromethane	5U	ug/l
Chloroethane	5U	ug/l
Vinyl Chloride	5U	ug/l
Methylene Chloride	25U	ug/l
Carbon Disulfide	25U	ug/l
Bromoform	5U	ug/l
Bromodichloromethane	5U	ug/l
1,1-Dichloroethane	5U	ug/l
1,1-Dichloroethene	5U	ug/l
Trichlorofluoromethane	5U	ug/l
Methane, Dichlorodiflu+	25U	ug/l
1,2-Dichloropropane	5U	ug/l
2-Butanone	25U	ug/l
1,1,2-Trichloroethane	5U	ug/l
Ethene, trichloro-	5U	ug/l
ETHANE, 1,1,2,2-TETRAC+	5U	ug/l
1,2,3-Trichlorobenzene	5U	ug/l
Hexachlorobutadiene	5U	ug/l
Naphthalene	87 *	ug/l
2-Chlorotoluene	5U	ug/l
1,2-Dichlorobenzene	5U	ug/l
1,2,4-Trimethylbenzene	5U	ug/l
1,2-Dibromo-3-chloropr+	25U	ug/l
1,2,3-Trichloropropane	5U	ug/l
Tert-Butylbenzene	5U	ug/l
Isopropylbenzene (Cume+	5U	ug/l
p-Isopropyltoluene	5U	ug/l
Ethylbenzene	5U	ug/l
BENZENE, ETHENYL-(STYR+	5U	ug/l
BENZENE, PROPYL-	5U	ug/l
Butylbenzene	5U	ug/l
4-Chlorotoluene	5U	ug/l
1,4-Dichlorobenzene	5U	ug/l
1,2-Dibromoethane (EDB)	5U	ug/l
1,2-Dichloroethane	5U	ug/l
4-Methyl-2-Pentanone(M+	5U	ug/l
1,3,5-Trimethylbenzene	5U	ug/l

VOA - PP Scan (GCMS) *** Continued ***	Water-Total Result	Units
Bromobenzene	5U	ug/l
Toluene	5U	ug/l
Chlorobenzene	5U	ug/l
1,2,4-Trichlorobenzene	5U	ug/l
Dibromochloromethane	5U	ug/l
Tetrachloroethene	5U	ug/l
Sec-Butylbenzene	5U	ug/l
1,3-Dichloropropane	5U	ug/l
Cis-1,2-Dichloroethene	5U	ug/l
trans-1,2-Dichloroethe+	5U	ug/l
1,3-Dichlorobenzene	5U	ug/l
1,1-Dichloropropene	5U	ug/l
2-Hexanone	5U	ug/l
2,2-Dichloropropane	5U	ug/l
Ethane, 1,1,1,2-Tetrac+	5U	ug/l
Total Xylenes	5U	ug/l
cis-1,3-Dichloropropene	5UJ	ug/l
trans-1,3-Dichloroprop+	5UJ	ug/l
p-Bromofluorobenzene	94	% Recov
D4-1,2-Dichlorobenzene	101	% Recov
d8-Toluene	103	% Recov
d4-1,2-Dichloroethane	101	% Recov

VOA - PP Scan (GCMS) Matrix Spike #1	Water-Total Result	Units
Carbon Tetrachloride	96	% Recov
Acetone	72J	% Recov
Chloroform	100	% Recov
Benzene	102	% Recov
1,1,1-Trichloroethane	96	% Recov
Bromomethane	102	% Recov
Chloromethane	96J	% Recov
Dibromomethane	100	% Recov
Bromochloromethane	105	% Recov
Chloroethane	104	% Recov
Vinyl Chloride	102	% Recov
Methylene Chloride	102J	% Recov
Carbon Disulfide	94J	% Recov
Bromoform	91	% Recov
Bromodichloromethane	98	% Recov
1,1-Dichloroethane	102	% Recov
1,1-Dichloroethene	102	% Recov

VOA - PP Scan (GCMS) *** Continued *** Matrix Spike #1	Water-Total Result	Units
Trichlorofluoromethane	100	% Recov
Methane, Dichlorodiflu+	102J	% Recov
1,2-Dichloropropane	108	% Recov
2-Butanone	106J	% Recov
1,1,2-Trichloroethane	100	% Recov
Ethene, trichloro-	96	% Recov
ETHANE, 1,1,2,2-TETRAC+	97	% Recov
1,2,3-Trichlorobenzene	100	% Recov
Hexachlorobutadiene	104	% Recov
Naphthalene	102	% Recov
Benzene, 1,2-Dimethyl	103	% Recov
2-Chlorotoluene	102	% Recov
1,2-Dichlorobenzene	98	% Recov
1,2,4-Trimethylbenzene	102	% Recov
1,2-Dibromo-3-chloropr+	110J	% Recov
1,2,3-Trichloropropane	104	% Recov
Tert-Butylbenzene	122	% Recov
Isopropylbenzene (Cume+	98	% Recov
p-Isopropyltoluene	99	% Recov
Ethylbenzene	105	% Recov
BENZENE, ETHENYL-(STYR+	97	% Recov
BENZENE, PROPYL-	102	% Recov
Butylbenzene	98	% Recov
4-Chlorotoluene	113	% Recov
1,4-Dichlorobenzene	102	% Recov
1,2-Dibromoethane (EDB)	104	% Recov
1,2-Dichloroethane	103	% Recov
4-Methyl-2-Pentanone(M+	106	% Recov
1,3,5-Trimethylbenzene	96	% Recov
Bromobenzene	101	% Recov
Toluene	96	% Recov
Chlorobenzene	102	% Recov
1,2,4-Trichlorobenzene	110	% Recov
Dibromochloromethane	98	% Recov
Tetrachloroethene	98	% Recov
Sec-Butylbenzene	96	% Recov
1,3-Dichloropropane	100	% Recov
Cis-1,2-Dichloroethene	102	% Recov
trans-1,2-Dichloroethe+	101	% Recov
1,3-Dichlorobenzene	98	% Recov
1,1-Dichloropropene	98	% Recov
2-Hexanone	100	% Recov
2,2-Dichloropropane	102	% Recov
Ethane, 1,1,1,2-Tetrac+	106	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352354 Description: WHC01 Source: Well (Test/Observation)

Begin Date: 92/08/26 10:20

VOA - PP Scan (GCMS) *** Continued *** Matrix Spike #1	Result	Units
D4-1,2-Dichlorobanzene	102	% Recov
d8-Toluene	102	% Recov
cis-1,3-Dichloropropene	52	% Recov
trans-1,3-Dichloroprop+	41	% Recov
d4-1,2-Dichloroethane	103	% Recov
p-Bromofluorobanzene	96	% Recov

VOA - PP Scan (GCMS) Matrix Spike #2	Result	Units
Carbon Tetrachloride	94	% Recov
Acatone	114J	% Recov
Chloroform	97	% Recov
Benzene	83	% Recov
1,1,1-Trichloroethene	96	% Recov
Bromomethane	95	% Recov
Chloromethane	83J	% Recov
Dibromomethane	93	% Recov
Bromochloromethane	96	% Recov
Chloroethane	93	% Recov
Vinyl Chloride	92	% Recov
Methylene Chloride	96J	% Recov
Carbon Disulfide	84J	% Recov
Bromoform	81	% Recov
Bromodichloromathane	84	% Recov
1,1-Dichloroethane	90	% Recov
1,1-Dichloroethene	92	% Recov
Trichlorofluoromethane	89	% Recov
Methane, Dichlorodiflu+	97J	% Recov
1,2-Dichloropropana	100	% Recov
2-Butanone	100J	% Recov
1,1,2-Trichloroethane	106	% Recov
Ethane, trichloro-	96	% Recov
ETHANE, 1,1,2,2-TETRAC+	100	% Recov
1,2,3-Trichlorobenzene	110	% Recov
Hexachlorobutadiene	116	% Recov
Naphthalene	106	% Recov
Benzene, 1,2-Dimethyl	100	% Recov
2-Chlorotoluene	102	% Recov
1,2-Dichlorobenzene	87	% Recov
1,2,4-Trimethylbenzene	94	% Recov
1,2-Dibromo-3-chloropr+	104J	% Recov
1,2,3-Trichloropropane	102	% Recov

VOA - PP Scan (GCMS) *** Continued *** Matrix Spike #2	Result	Units
Tert-Butylbenzene	102	% Recov
Isopropylbenzene (Cume+	91	% Recov
p-Isopropyltoluene	94	% Recov
Ethylbenzene	97	% Recov
BENZENE, ETHENYL-(STYR+	90	% Recov
BENZENE, PROPYL-	101	% Recov
Butylbenzene	95	% Recov
4-Chlorotoluene	95	% Recov
1,4-Dichlorobenzene	96	% Recov
1,2-Dibromoethane (EDB)	100	% Recov
1,2-Dichloroethane	96	% Recov
4-Methyl-2-Pentanone(M+	98	% Recov
1,3,5-Trimethylbenzene	94	% Recov
Bromobenzene	100	% Recov
Toluene	86	% Recov
Chlorobenzene	100	% Recov
1,2,4-Trichlorobenzene	102	% Recov
Dibromochloromethane	87	% Recov
Tetrachloroethene	94	% Recov
Sec-Butylbenzene	92	% Recov
1,3-Dichloropropane	92	% Recov
Cis-1,2-Dichloroethene	92	% Recov
trans-1,2-Dichloroethe+	93	% Recov
1,3-Dichlorobenzene	100	% Recov
1,1-Dichloropropene	95	% Recov
2-Hexanone	94	% Recov
2,2-Dichloropropane	93	% Recov
Ethane, 1,1,1,2-Tetrac+	97	% Recov
D4-1,2-Dichlorobenzene	99	% Recov
d8-Toluene	103	% Recov
cis-1,3-Dichloropropene	44	% Recov
trans-1,3-Dichloroprop+	38	% Recov
d4-1,2-Dichloroethane	101	% Recov
p-Bromofluorobenzene	97	% Recov

Tent Ident - VOA Sca *** Continued ***	Result	Units
Isopropylbenzene (Cume+	29NJ*	ug/l
NAPHTHALENE, 1,2,3,4-T+	40NJ*	ug/l
Benzene, 1,2,3,4-Tetra+	23NJ*	ug/l
Indan	25NJ*	ug/l
1H-INDENE, 2,3-DIHYDRO+	30NJ*	ug/l

Tent Ident - VOA Sca *** Continued ***	Result	Units
BENZENE, (1-METHYL-1 :	87NJ*	ug/l
1H-INDENE, 2,3-DIHYDRO	34NJ*	ug/l
1H-INDENE, 2,3-DIHYDRO+	85NJ*	ug/l
1H-INDENE, 2,3-DIHYDRO+	24NJ*	ug/l
1H-INDENE, 2,3-DIHYDRO+	38NJ*	ug/l

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: PA10PUZZ

Blank ID: BW2247

VOA - PP Scan (GCMS) Blank #1	Water-Total Result	Units
Carbon Tetrachloride	1U	ug/l
Acetone	1J*	ug/l
Chloroform	1U	ug/l
Benzene	1U	ug/l
1,1,1-Trichloroethane	1U	ug/l
Bromomethane	1U	ug/l
Chloromethane	1UJ	ug/l
Dibromomethane	1U	ug/l
Bromochloromethane	1U	ug/l
Chloroethane	1U	ug/l
Vinyl Chloride	1U	ug/l
Methylene Chloride	0.2J*	ug/l
Carbon Disulfide	0.1J*	ug/l
Bromoform	1U	ug/l
Bromodichloromethane	1U	ug/l
1,1-Dichloroethane	1U	ug/l
1,1-Dichloroethene	1U	ug/l
Trichlorofluoromethane	1U	ug/l
Methane, Dichlorodiflu+	5U	ug/l
1,2-Dichloropropane	1U	ug/l
2-Butanone	5U	ug/l
1,1,2-Trichloroethane	1U	ug/l
Ethene, trichloro-	1U	ug/l
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l
1,2,3-Trichlorobenzene	0.5J*	ug/l
Hexachlorobutadiene	0.2J*	ug/l
Naphthalene	1U	ug/l
2-Chlorotoluene	1U	ug/l
1,2-Dichlorobenzene	1U	ug/l
1,2,4-Trimethylbenzene	1U	ug/l
1,2-Dibromo-3-chloropr+	5U	ug/l
1,2,3-Trichloropropane	1U	ug/l
Tert-Butylbenzene	1U	ug/l
Isopropylbenzene (Cume+	1U	ug/l
p-Isopropyltoluene	1U	ug/l
Ethylbenzene	1U	ug/l
BENZENE, ETHENYL-(STYR+	1U	ug/l
BENZENE, PROPYL-	1U	ug/l
Butylbenzene	1U	ug/l
4-Chlorotoluene	1U	ug/l
1,4-Dichlorobenzene	1U	ug/l
1,2-Dibromoethane (EDB)	1U	ug/l
1,2-Dichloroethene	1U	ug/l
4-Methyl-2-Pentanone(M+	1U	ug/l
1,3,5-Trimethylbenzene	1U	ug/l

VOA - PP Scan (GCMS) *** Continued *** Blank #1	Water-Total Result	Units
Bromobenzene	1U	ug/l
Toluene	0.09J*	ug/l
Chlorobenzene	1U	ug/l
1,2,4-Trichlorobenzene	0.3J*	ug/l
Dibromochloromethane	1U	ug/l
Tetrachloroethene	1U	ug/l
Sec-Butylbenzene	1U	ug/l
1,3-Dichloropropane	1U	ug/l
Cis-1,2-Dichloroethene	1U	ug/l
trans-1,2-Dichloroethe+	1U	ug/l
1,3-Dichlorobenzene	1U	ug/l
1,1-Dichloropropene	1U	ug/l
2-Hexanone	1U	ug/l
2,2-Dichloropropane	1U	ug/l
Ethane, 1,1,1,2-Tetrac+	1U	ug/l
Total Xylenes	1U	ug/l
cis-1,3-Dichloropropene	1U	ug/l
trans-1,3-Dichloroprop+	1U	ug/l
p-Bromofluorobenzene	97	% Recov
D4-1,2-Dichlorobenzene	100	% Recov
d8-Toluene	100	% Recov
d4-1,2-Dichloroethane	102	% Recov

(Sample Complete)

ENVIRONMENTAL SERVICE ASSISTANCE TEAMS - ZONE 2

RECEIVED
NOV 30 1992
URS CONSULTANTS

ICF Technology Inc.
ManTech Environmental

ESAT Region 10
ICF Technology Inc.
1200 Sixth Avenue
Seattle, WA 98101
Phone (206) 553-2632

DCL#: 62760.05.60.214 1992
FILE NO. 15.61
CC:
PM__ DPM__ SM X C/SM__ FILE X

DATE: November 8, 1992

TO: Jerry Muth, Deputy Project Officer, USEPA Region 10
Joe Blazevich, Task Monitor, USEPA Region 10
Monica Rolluda, USEPA Project Officer

FROM: Gerald H. Dodo, ESAT Data Reviewer

THROUGH: Barry Pepich, ESAT Team Manager

SUBJECT: Data Validation Report of Semivolatile Analyses of Soil Samples from Avery Railroad Dump, Avery ID

TID NO. 10-9209-203

DOCUMENT NO: ESAT-10-A-5553

CC: Bruce Woods, USEPA
Kara Stewart, URS

The data validation of 20 soil samples collected from the Avery Railroad site has been completed. These samples were analyzed for semi-volatile target analytes using SW-846 Method 8270, 3rd ed., with some modifications by the USEPA Region 10 laboratory in Manchester, WA. The sample extracts were processed through gel permeation chromatography (GPC) followed by the use of alumina columns to split the extracts into polar and non-polar fractions. The use of alumina was used as a means to remove oil type interferents expected to be in the extracts. Each fraction was analyzed separately using gas chromatography/mass spectrometry (GC/MS). The sample results were reported in this memo as a total of the two fractions. This data validation was conducted for the following samples listed by EPA sample codes:

92352358	92352359	92352360	92352361	92352362
92352363	92352364	92352365	92352366	92352367
92352368	92352369	92352370	92352371	92352372
92352373	92352374	92352375	92352376	92352377

DATA QUALIFICATIONS

The following comments refer to the laboratory performance in meeting the Quality Control Specifications outlined in the "National Functional Guidelines for Organic Data Review - 6/91 (Draft)".

The conclusions presented herein are based on the information provided for the review.

1. Timeliness - Acceptable

The chain of custody sheet did not indicate that the samples were preserved prior to shipment.

All of the samples were extracted within the Functional Guidelines recommended holding time for soil samples (14 days from sample collection). Extracts were analyzed within 40 days from extraction.

Listed below are pertinent sample collection, receipt, preparation, and analysis dates.

Sample Number	Sample Date	Rec'd. Date	Extract. Date	Analysis Date *
92352358 **	08/25/92	08/28/92	09/03/92	10/09/92
92352359 **	08/25/92	08/28/92	09/03/92	10/09/92
92352360	08/25/92	08/28/92	09/03/92	10/05/92
92352361	08/25/92	08/28/92	09/03/92	10/05/92
92352362	08/25/92	08/28/92	09/03/92	10/05/92
92352363	08/25/92	08/28/92	09/03/92	10/07/92
92352364	08/26/92	08/28/92	09/03/92	10/06/92
92352365	08/26/92	08/28/92	09/03/92	10/05/92
92352366	08/26/92	08/28/92	09/03/92	10/09/92
92352367	08/26/92	08/28/92	09/03/92	10/06/92
92352368	08/26/92	08/28/92	09/03/92	10/06/92
92352369	08/26/92	08/28/92	09/03/92	10/09/92
92352370	08/26/92	08/28/92	09/03/92	10/06/92
92352371	08/26/92	08/28/92	09/03/92	10/06/92
92352372	08/26/92	08/28/92	09/03/92	10/06/92
92352373	08/26/92	08/28/92	09/03/92	10/06/92
92352374	08/26/92	08/28/92	09/03/92	10/07/92
92352375	08/26/92	08/28/92	09/03/92	10/07/92
92352376	08/26/92	08/28/92	09/03/92	10/06/92
92352377	08/26/92	08/28/92	09/03/92	10/06/92

* - Latest analysis date.

** - Described in the laboratory log-in form as a sludge. Sample contained a high amount of oil according to the laboratory.

2. GC/MS Tuning - Acceptable

Two GC/MS systems were used in the analysis of the polar and non-polar fractions of the sample extracts. One system was used for the analysis of all polar fractions while the other was used for the non-polar fractions. Tuning checks were performed at the beginning of each analysis day and instrument. The data presented on each GC/MS Tuning and Mass Calibration form was compared with each mass listing, and raw data.

Calculations and transcriptions were correct. Tuning and performance criteria were met.

3. Initial Calibration

Initial calibration of the instrument used for analysis of the polar fractions was performed on 01/17/92. The initial calibration of the instrument used for analysis of the non-polar fractions was performed on 01/28/92. The calculations were verified to be correct with the raw data. The minimum relative response factor (RRF) requirement and the percent relative standard deviations (%RSDs) criteria of $\leq$30% were met by the target compounds and surrogates except for the following:

Polar Fractions
01/17/92

Compound	%RSD
benzoic acid	31
2,4-dinitrophenol	51
4,6-dinitro-2-methylphenol	33
N-nitrosodiphenylamine	35
9h-carbazole	34
di-n-octylphthalate	33

Non-Polar Fractions
01/28/92

Compound	%RSD
3-nitroaniline	37
9h-carbazole	35

The sample results for the respective fractions and compounds listed above were qualified as estimates, J/UJ.

4. Continuing Calibration

The continuing calibration standards met the criteria for frequency of analysis and RRT windows for all target compounds and surrogates.

The RRF percent differe. s (%Ds) criteria of $\leq$25% as compar. to the mean RRFs from the initial calibration and the minimum RRF criteria of $\geq$0.05 were met with exception of the following:

Polar Fractions

Analysis Date	Compound	%D	RRF	Qualifier Applied Det.	Qualifier Applied Non-Det.
10/05/92	bis(2-chloroisopropyl)ether	-29.4		J	UJ
	N-nitroso-di-n-propylamine	-28.0		J	UJ
	4-chloroaniline	-34.3		J	UJ
	3-nitroaniline	-85.9	0.02	J	R
	2,4-dinitrotoluene	31.5		J	
	4-nitroaniline	32.5		J	
	9h-carbazole	-75.2		J	UJ
	bis-2-ethylhexylphthalate	26.5		J	
10/06/92	bis(2-chloroisopropyl)ether	-29.3		J	UJ
	N-nitroso-di-n-propylamine	-26.6		J	UJ
	4-chloroaniline	62.7		J	
	hexachlorocyclopentadiene	-33.5		J	UJ
	3-nitroaniline	-53.1		J	UJ
	2,4-dinitrotoluene	31.2		J	
	4-nitroaniline	52.4		J	
	N-nitrosodiphenylamine	40.9		J	
	bis(2-ethylhexyl)phthalate	30.9		J	
	benzo(k)fluoranthene	-25.2		J	UJ
10/07/92	4-chloro-3-methylphenol	35.7		J	
	hexachlorocyclopentadiene	-28.6		J	UJ
	3-nitroaniline	-65.6		J	UJ
	4-nitrophenol	41.8		J	
	2,4-dinitrotoluene	32.1		J	
	4-nitroaniline	38.9		J	
	butylbenzylphthalate	46.1		J	
	bis(2-ethylhexyl)phthalate	49.5		J	
10/09/92	4-chloroaniline	72.4		J	
	4-chloro-3-methylphenol	39.5		J	
	hexachlorocyclopentadiene	-43.8		J	UJ
	3-nitroaniline	-49.2		J	UJ
	2,4-dinitrophenol	34.8		J	
	4-nitrophenol	48.4		J	
	2,4-dinitrotoluene	31.2		J	
	4-nitroaniline	64.3		J	
	N-nitrosodiphenylamine	44.5		J	
	pentachlorophenol	37.1		J	
	butylbenzylphthalate	31.2		J	

	bis(2-ethylh...yl)phthalate	38.7	J	
	benzo(k)fluoranthene	-29.7	J	UJ
	indeno(123-cd)pyrene	31.1	J	
10/13/92	bis(2-chloroisopropyl)ether	-37.7	J	UJ
	hexachlorocyclopentadiene	-36.2	J	UJ
	2-nitroaniline	-33.5	J	UJ
	3-nitroaniline	-61.7	J	UJ
	4-nitrophenol	41.8	J	
	hexachlorobenzene	-26.2	J	UJ
	pentachlorophenol	30.0	J	
	9h-carbazole	-40.6	J	UJ
	butylbenzylphthalate	28.2	J	
	bis(2-ethylhexyl)phthalate	39.7	J	

Non-Polar Fractions

Analysis				Qualifier Applied	
Date	Compound	%D	RRF	Det.	Non-Det.
10/01/92	phenol	-41.4		J	UJ
	2-chlorophenol	-27.5		J	UJ
	benzyl alcohol	-96.5	0.03	J	R
	2-methylphenol	-26.8		J	UJ
	bis(2-chloroisopropyl)ether	37.5		J	
	4-methylphenol	-41.9		J	UJ
	nitrobenzene	-27.8		J	UJ
	benzoic acid	-52.5		J	UJ
	4-chloro-3-methylphenol	-29.0		J	UJ
	2,4,6-trichlorophenol	-45.5		J	UJ
	2,4,5-trichlorophenol	-53.4		J	UJ
	2,4-dinitrophenol	-51.9		J	UJ
	4-nitrophenol	-35.8		J	UJ
	4,6-dinitro-2-methylphenol	-41.2		J	UJ
	pentachlorophenol	-66.7		J	UJ
	9h-carbazole	-32.7		J	UJ
	3,3'-dichlorobenzidine	-33.1		J	UJ
	benzo(ghi)perylene	-26.8		J	UJ
10/02/92	bis(2-chloroisopropyl)ether	34.5		J	
	2,4-dimethylphenol	-26.3		J	UJ
	benzoic acid	-44.1		J	UJ
	3-nitroaniline	-35.4		J	UJ
	2,4-dinitrophenol	-46.2		J	UJ
	4-nitrophenol	-42.5		J	UJ
	4,6-dinitro-2-methylphenol	-39.9		J	UJ

	pentachlor enol	-31.7	J	UJ
	9h-carbazole	-30.0	J	UJ
10/05/92	bis(2-chloroisopropyl)ether	28.8	J	
	benzoic acid	-46.0	J	UJ
	2,4-dinitrophenol	-47.5	J	UJ
	4-nitrophenol	-26.4	J	UJ
	4-nitroaniline	-32.1	J	UJ
	4,6-dinitro-2-methylphenol	-45.8	J	UJ
	N-nitrosodiphenylamine	29.2	J	
10/06/92	bis(2-chloroisopropyl)ether	46.5	J	
	benzoic acid	-28.4	J	UJ
	4-chloroaniline	30.7	J	
	2,4-dinitrophenol	-41.1	J	UJ
	4,6-dinitro-2-methylphenol	-32.0	J	UJ
	N-nitrosodiphenylamine	44.6	J	
	hexachlorobenzene	-26.6	J	UJ
10/07/92	benzyl alcohol	-40.2	J	UJ
	bis(2-chloroisopropyl)ether	56.7	J	
	benzoic acid	-46.0	J	UJ
	4-chloroaniline	54.2	J	
	hexachlorocyclopentadiene	-33.6	J	UJ
	2,4,6-trichlorophenol	-30.3	J	UJ
	2,4,5-trichlorophenol	-29.1	J	UJ
	2,4-dinitrophenol	-65.8	J	UJ
	4-nitrophenol	-53.8	J	UJ
	2,4-dinitrotoluene	-29.2	J	UJ
	4-nitroaniline	-52.9	J	UJ
	4,6-dinitro-2-methylphenol	-49.7	J	UJ
	N-nitrosodiphenylamine	50.6	J	
	4-bromophenylphenylether	-26.5	J	UJ
	hexachlorobenzene	-32.6	J	UJ
	pentachlorophenol	-45.2	J	UJ
	di-n-octylphthalate	41.5	J	
10/08/92	benzyl alcohol	-26.2	J	UJ
	bis(2-chloroisopropyl)ether	37.8	J	
	benzoic acid	-26.4	J	UJ
	hexachlorobutadiene	-27.5	J	UJ
	hexachlorocyclopentadiene	-28.6	J	UJ
	2,4,5-trichlorophenol	-26.7	J	UJ
	2,4-dinitrophenol	-34.2	J	UJ
	4-chlorophenylphenylether	-30.6	J	UJ
	4,6-dinitro-2-methylphenol	-33.3	J	UJ
	N-nitrosodiphenylamine	38.7	J	
	hexachlorobenzene	-27.2	J	UJ

bis(2-ethylh...yl)phthalate	28.9	J
di-n-octylphthalate	50.0	J

Sample results associated with the above compounds and continuing calibrations were qualified accordingly. For compounds with RRFs not meeting the %D criteria but indicate an increase in sensitivity, no qualifiers were applied to non-detected results.

5. Internal Standards Performance

The data reported on the Internal Standard Area Summary form was verified with the raw data. Chromatograms, quantitation lists, and transcriptions were examined.

The analyses met the acceptance criterion for the internal standard (IS) retention time shift (±30 seconds from the associated continuing calibration standard) and area count criteria (-50% to +100% of the area of the associated calibration standard) with the following exceptions:

Polar Fractions

Sample	Internal Standard
92352358	perylene-d12

Non-Polar Fractions

Sample	Internal Standard
92352358	chrysene-d12
	perylene-d12
92352359	phenanthrene-d10

All analysis results associated with the above samples and internal standards were qualified as estimates, J/UJ.

6. Compound Identification

The chromatograms and quantitation lists were inspected. Sample and laboratory generated standard spectra were examined. Positive sample results reported on the Form Is were within relative retention time (RRT) windows. Sample spectra not quite meeting the Functional Guidelines matching criteria but containing the quantitation and other secondary ions were qualified with an N, a strong but not certain indication that the compound is present.

Samples 92352358 and 92352359 non-polar fraction analyses resulted with spectra containing hydrocarbon like patterns for detected compounds such as the polynuclear aromatic hydrocarbons (PAHs). This caused most of the reported PAHs for these samples to fail the spectral matching criteria despite using background subtraction and enhancement techniques.

Most of the PAH results re qualified as N for these samples c N if previously qualified as estimates.

7. Compound Quantitation and Quantitation Limits - Acceptable

The raw data was examined to verify the calculations of sample results and the reported detection limits. The reviewer calculated QLs using the lower calibration standards from the associated initial calibration were slightly lower than that reported on the Form Is. Based on the laboratory's experience, the reported QLs are more conservative and realistic with regards to soil analyses. Detected sample results less than the QL were qualified by the laboratory as estimates.

All sample results were calculated against an updated daily continuing calibration standard. No errors were determined.

The results from the polar and non-polar fractions analyses were combined to produce the total results for each sample using the following guidelines:

a. Detected results were combined or replaced non-detected results as the total. If one of the two results was qualified as an estimate, **J**, the total was considered an estimate also.

b. If one of two detected results to be combined was qualified with an **N**, the total result was qualified as an estimate since at least one of the detected results was confirmed.

c. If both results were non-detected, the higher QL was applied to the total result as a conservative measure. From the MS/MSD results (see **Matrix Spike/Matrix Spike Duplicate** section), it is still uncertain as to which fraction each compound was expected to partition to for these sample analyses.

The modified Form Is containing the total results for each sample are attached to this memo as the total results for these analyses.

8. Blanks

The frequency of analysis of the method blank was met. Two separate batches of alumina were used during the sample preparation. A method blank and duplicate was prepared using each batch. The polar and non-polar fraction analysis results for the blanks were combined to give a total result that was compared to the total result for each sample. Blank results were associated with samples prepared using the same alumina batch.

The blanks prepared using the first alumina batch, BS2247 and BS2247D, contained the following target compounds which required that the quantitation limits (QL) be increased for associated sample analyses:

Compound	Conc. ppb *	New QL (ppb)
phenol	82	410
diethylphthalate	6	60
di-n-butylphthalate	270	2700
butylbenzylphthalate	11	110
bis(2-ethylhexyl)phthalate	820	8200
di-n-octylphthalate	59	590

* - The higher concentration between the blank duplicates are listed.

The associated samples prepared using the first alumina batch are 92352360, 92352361, 92352362, 92352363, 92352364, 92352365, 92352367, 92352368, 92352370, 92352371, 92352372, 92352373, 92352374, 92352376, and 92352377.

The blanks prepared using the second alumina batch, BS2246 and BS2246D, contained the following target compounds which required that the quantitation limits (QL) be increased for associated sample analyses:

Compound	Conc. ppb	New QL (ppb)
phenol	33	170
bis(2-chloroisopropyl)ether	8	40
isophorone	540	2700
N-nitrosodiphenylamine	12	60
di-n-butylphthalate	44	440
pyrene	9	45
bis(2-ethylhexyl)phthalate	56	560
di-n-octylphthalate	3	30
naphthalene	4	20
phenanthrene	6	30

* - The higher concentration between the blank duplicates are listed.

The associated samples prepared using the second alumina batch are 92352358, 92352359, 92352366, 92352369, and 92352375.

Associated detected sample results less than the increased quantitation limits for the above compounds were qualified as non-detected, U, with the reported QL at the sample concentration or at the initial QL, whichever is greater.

Tentatively identified compounds (TICs) were not present in BS2246 and BS2246D to any significant degree. TICs were present in BS2247 and BS2247D; however, based on spectra

and retention times, did not appear to be present in the TICs found in the associated sample analyses results.

9. Surrogate Recovery

The surrogate recoveries were evaluated on a total polar and non-polar fraction analysis results basis for each sample. The Functional Guidelines allows for one surrogate per fraction to be out of criteria but above 10% recovery without qualification.

The following samples resulted with more than one surrogate per fraction out of criteria and/or a recovery $< 10\%$:

Sample	Surrogate	% Rec.
92352358	2-fluorobiphenyl	185
	terphenyl-d14	172
92352360	phenol-d5	5
92352361	phenol-d5	0
92352366	phenol-d5	17
	2-fluorophenol	12
92352367	phenol-d5	0
92352368	phenol-d5	0
92352371	nitrobenzene-d5	18
	2-fluorobiphenyl	24
	phenol-d5	17
	2-fluorophenol	24
92352372	phenol-d5	19
	2-fluorophenol	17
92352376	phenol-d5	8
	2-fluorophenol	17

As a result of the above recoveries, the following qualifiers were applied to the total associated semi-volatile fractions results:

		Qualifier Applied	
Sample	Fraction Qualified	Det.	Non-det.
92352358	base/neutrals	J	
92352360	acids	J	R
92352361	acids	J	R
92352366	acids	J	UJ
92352367	acids	J	R
92352368	acids	J	R
92352371	acids,base/neutrals	J	UJ
92352372	acids	J	UJ
92352376	acids	J	R

In cases where the total sample data was previously qualified as estimates, the R qualifier (rejected) is always of higher precedence.

10. Matrix Spike/Matrix Spike Duplicate

The frequency of analysis of matrix spike and matrix spike duplicates (MS/MSD) was met. An MS/MSD pair was prepared using sample 92352359 which was one of the soils with a high oil content. Portions of this extract was applied to both alumina batches after the GPC procedure. An MS/MSD pair was also prepared using sample 92352371 which was expected to be representative of the other soil samples. This extract was applied to only the first alumina batch. The MS/MSD results were evaluated on a total polar and non-polar fraction analysis results basis.

In general, MS/MSD analyses using sample 92352359 resulted with poor recoveries using either alumina batches. Using the first alumina batch resulted with 20 of 98 base/neutrals and 18 of 30 acids spike recovery results equal to 0%. Using the second alumina batch resulted with 47 of 98 base/neutrals and 30 of 30 acids spike recovery results equal to 0%.

MS/MSD analyses using sample 92352371 resulted in better recoveries overall. Only 2 of 98 base/neutrals resulted with 0% recovery, however, 16 of 30 acids resulted with 0% recovery.

The spiked acids were not recovered well with either sample or alumina batches. The spiked base/neutrals were recovered better from sample 92352371 but it is uncertain whether this is representative of the performance for all the soil analyses. The base/neutral organics were found in both the polar and non-polar fractions, which suggests the alumina columns may have been overloaded.

No qualifiers were applied on the sample data based on the MS/MSD performance; however, this section is further addressed in the following sections.

11. Tentatively Identified Compounds

All TIC results were qualified as tentatively identified estimates, JN. A majority of the TICs are hydrocarbon like compounds which is consistent with the observed presence of oil in the samples.

The TIC results were kept separate by polar and non-polar fractions analyses due to the tentative identification nature of the data.

12. System Performance - Acceptable

All of the standards, blanks and samples were analyzed in accordance with the method.

13. Laboratory Contact

The laboratory was contacted for this review to further understand the logic and methods used for the analysis of these samples.

14. Overall Assessment

Greater than 20% of the sample results were qualified based on the performance for initial calibration, continuing calibration, internal standard areas, and surrogate recoveries. This is exceptionally high and is likely due to the difficult matrix. The extract clean-up methods applied by the laboratory were not always successful.

The MS/MSD recovery results indicates that the preparation method used for these samples may not have been adequate and may be the cause for the generally low recoveries of the acids fraction.

The oil content still present in the final extracts prevented positive identification of several PAHs for samples 92352358 and 92352359 despite being measured well above the laboratory QL. This suggests that the alumina columns used were overloaded.

It is likely that for future analyses of samples like 92352358 and 92352359, the alumina or other clean-up methods needs to be further developed at the laboratory.

DATA QUALIFIER DEFINITIONS

U- The analyte was analyzed for and is not present above the level of the associated value. The associated numerical value indicates the approximate concentration necessary to detect the analyte in this sample.

J- The analyte was analyzed for and was positively identified, but the associated numerical value may not be consistent with the amount actually present in the environmental sample. The data should be seriously considered for decision making and are usable for many purposes.

A subscript may be appended to the "J" that indicates which of the following quality control criteria were not met:

1 Blank contamination: indicates possible high bias and/or false positives.

2 Calibration range exceeded: indicates possible low bias.

3 Holding times not met: indicates low bias for most analytes with the exception of common laboratory contaminants and chlorinated ethenes (i.e.: trichloroethene, 1,1-dichloroethene, vinyl chloride).

4 Other QC outside control limits: bias not readily determined.

R- The data are unusable for all purposes. The analyte was analyzed for, but the presence or absence of the analyte has not been verified.

Resampling and reanalysis are necessary to confirm or deny the presence of the analyte.

UJ - A combination of the "U" and "J" qualifier. The analyte was analyzed for and was not present above the level of the associated value. The associated numerical value may not accurately or precisely represent the concentration necessary to detect the analyte in this sample.

If a decision requires quantitation of the analyte close to the associated numerical level, reanalysis or alternative analytical methods should be considered.

N- The analysis indicates that an analyte is present, and there are strong indications that the identity is correct.

Confirmation of the analyte requires further analysis.

JN- A combination of the "J" and the "N" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

A subscript may be appended to the "JN" that indicates which of the following situations applies:

1 Interference from other sample components.

2 Non-Target Compound List (TCL) compounds (Confirmation is necessary using specific target compound methodology to accurately determine the concentration and identity of the detected compound).

3 A confirmation analysis was missing or quality control criteria were not met for the confirmation analysis.

NOTE: Data users are encouraged to contact their Regional representative within ESD to clarify or obtain further information on the appropriate use of analytical data.

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352358 Description: ORS01 Source: Sludge (Waste Pond)

Begin Date: 92/08/25 12:00

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	1700NJ*	ug/kg
2,4-Dinitrophenol	71000UJ	ug/kg
Dibenzo(a,h)anthracene	14000UJ	ug/kg
Benzo(a)anthracene	3400JN*	ug/kg
4-Chloro-3-Methylphenol	28000U	ug/kg
Benzoic acid	71000U	ug/kg
Hexachloroethane	5400U	ug/kg
Hexachlorocyclopentadi+	28000UJ	ug/kg
Isophorone	5400U	ug/kg
Acenaphthene	13000J*	ug/kg
Diethylphthalate	5400U	ug/kg
Di-n-Butylphthalate	590NJ*	ug/kg
Phenanthrene	14000N*	ug/kg
Butylbenzylphthalate	14000UJ	ug/kg
N-Nitrosodiphenylamine	71000UJ	ug/kg
Fluorene	22000N*	ug/kg
Carbazole	28000UJ	ug/kg
Hexachlorobutadiene	14000U	ug/kg
Pentachlorophenol	28000UJ	ug/kg
2,4,6-Trichlorophenol	14000UJ	ug/kg
2-Nitroaniline	14000U	ug/kg
2-Nitrophenol	14000U	ug/kg
Naphthalene, 1-Methyl-	10000N*	ug/kg
Naphthalene	5400U	ug/kg
2-Methylnaphthalene	2700NJ*	ug/kg
2-Chloronaphthalene	5400U	ug/kg
3,3'-Dichlorobenzidine	140000UJ	ug/kg
2-Methylphenol	5400U	ug/kg
1,2-Dichlorobenzene	5400U	ug/kg
o-Chlorophenol (2-Chlo+	5400U	ug/kg
2,4,5-Trichlorophenol	28000UJ	ug/kg
Nitrobenzene	5400U	ug/kg
3-Nitroaniline	71000UJ	ug/kg
4-Nitroaniline	71000UJ	ug/kg
4-Nitrophenol	71000UJ	ug/kg
Benzyl Alcohol	28000UJ	ug/kg
4-Bromophenyl-phenylet+	5400U	ug/kg
2,4-Dimethylphenol	5400U	ug/kg
4-Methylphenol	5400U	ug/kg
1,4-Dichlorobenzene	5400U	ug/kg
4-Chloroaniline	71000U	ug/kg
Phenol	5400U	ug/kg
bis(2-Chloroethyl)Ether	5400U	ug/kg
bis(2-Chloroethoxy)Met+	5400U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	1300JN*	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Octyl Phtbalate	5400U	ug/kg
Hexachlorobenzene	5400UJ	ug/kg
Anthracene	5400U	ug/kg
1,2,4-Trichlorobenzene	5400U	ug/kg
2,4-Dichlorophenol	5400U	ug/kg
2,4-Dinitrotoluene	14000UJ	ug/kg
Pyrene	15000J*	ug/kg
Dimethylphthalate	5400U	ug/kg
Dibenzofuran	5400U	ug/kg
Benzo(ghi)perylene	5400UJ	ug/kg
Indeno(1,2,3-cd)pyrene	5400UJ	ug/kg
Benzo(b)fluoranthene	4100JN*	ug/kg
Fluoranthene	6000N*	ug/kg
Benzo(k)fluoranthene	5400UJ	ug/kg
Acenaphthylene	5400U	ug/kg
Chrysene	6200 *	ug/kg
Retene	13000N*	ug/kg
4,6-Dinitro-2-methylph+	71000UJ	ug/kg
1,3-Dichlorobenzene	5400U	ug/kg
2,6-Dinitrotoluene	14000U	ug/kg
N-Nitroso-di-n-Propyla+	5400U	ug/kg
4-Chlorophenyl-phenyle+	5400UJ	ug/kg
BIS(2OCHLOROISOPROPYL)+	5400U	ug/kg
Surrog: 2-Fluorobiphen+	185	% Recov
Surrog: 2-Fluorophenol	45	% Recov
Surrog: D14-Terphenyl	172	% Recov
PYRENE-D10 (SS)	139	% Recov
Surrog: D5-Nitrobenzene	113	% Recov
Surrog: D5-Phenol	90	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
4-HYDROXY-4-METHYLPENT+	61000NJ*	ug/kg
3-PENTEN-2-ONE, 4-METH+	28000NJ*	ug/kg
NAPHTHALENE, 1-METHYL-+	160000NJ*	ug/kg
2-PENTADECANONE, 6,10,+	5500NJ*	ug/kg
1,1'-BIPHENYL, 2,2'-DI+	150000NJ*	ug/kg
1,1'-BIPHENYL, 2,4'-DI+	67000NJ*	ug/kg
UNKNOWN HYDROCARBON #2	590000NJ*	ug/kg
UNKNOWN HYDROCARBON #3	430000NJ*	ug/kg
UNKNOWN HYDROCARBON #4	450000NJ*	ug/kg
UNKNOWN HYDROCARBON #5	130000NJ*	ug/kg

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
UNKNOWN HYDROCARBON #6	130000NJ*	ug/kg
1,1'-BIPHENYL, 2-ETHYL-	41000NJ*	ug/kg
NAPHTHALENE, 1,4,6-TRI+	170000NJ*	ug/kg
NAPHTHALENE, 1,6,7-TRI+	170000NJ*	ug/kg
NAPHTHALENE, 1-(2-PROP+	140000NJ*	ug/kg
9H-FLUORENE, 2,3-DIMET+	46000NJ*	ug/kg
UNKNOWN HYDROCARBON 1	340000NJ*	ug/kg
UNKNOWN COMPOUND 1	10000NJ*	ug/kg
BENZENE, 1-METHYL-3-(2+	100000NJ*	ug/kg
1-INDANONE, 5,6-DIMETH+	4200NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	7300NJ*	ug/kg
3-HEXADECENE, (Z)-	2700NJ*	ug/kg
HEPTADECANE, 2,6-DIMET+	90100NJ*	ug/kg
3,5-OCTADIENE, 4,5-DIE+	10000NJ*	ug/kg
IRON, TRICARBONYL[N-PH+	12000NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352359 Description: ORS02 Source: Sludge (Waste Pond)

Begin Date: 92/08/25 12:00

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	700JN*	ug/kg
2,4-Dinitrophenol	70000UJ	ug/kg
Dibenzo(a,h)anthracene	14000U	ug/kg
Benzo(a)anthracene	5500N*	ug/kg
4-Chloro-3-Methylphenol	28000U	ug/kg
Benzoic acid	70000UJ	ug/kg
Hexachloroethane	5300U	ug/kg
Hexachlorocyclopentadi+	28000UJ	ug/kg
Isophorone	5300U	ug/kg
Acenaphthene	4000JN*	ug/kg
Diethylphthalate	5300U	ug/kg
Di-n-Butylphthalate	5300UJ	ug/kg
Phenanthrene	5300UJ	ug/kg
Butylbenzylphthalate	520J*	ug/kg
N-Nitrosodiphenylamine	70000UJ	ug/kg
Fluorene	5300U	ug/kg
Carbazole	28000UJ	ug/kg
Hexachlorobutadiene	14000UJ	ug/kg
Pentachlorophenol	28000UJ	ug/kg
2,4,6-Trichlorophenol	14000U	ug/kg
2-Nitroaniline	14000U	ug/kg
2-Nitrophenol	14000U	ug/kg
Naphthalene, 1-Methyl-	8400 *	ug/kg
Naphthalene	5300U	ug/kg
2-Methylnaphthalene	2700NJ*	ug/kg
2-Chloronaphthalene	5300U	ug/kg
3,3'-Dichlorobenzidine	140000U	ug/kg
2-Methylphenol	5300U	ug/kg
1,2-Dichlorobenzene	5300U	ug/kg
o-Chlorophenol (2-Chlo+	5300U	ug/kg
2,4,5-Trichlorophenol	27000UJ	ug/kg
Nitrobenzene	5300U	ug/kg
3-Nitroaniline	70000UJ	ug/kg
4-Nitroaniline	70000U	ug/kg
4-Nitrophenol	70000U	ug/kg
Benzyl Alcohol	28000UJ	ug/kg
4-Bromophenyl-phenylet+	5300U	ug/kg
2,4-Dimethylphenol	5300U	ug/kg
4-Methylphenol	5300U	ug/kg
1,4-Dichlorobenzene	5300U	ug/kg
4-Chloroaniline	70000U	ug/kg
Phenol	5300U	ug/kg
bis(2-Chloroethyl)Ether	5300U	ug/kg
bis(2-Chloroethoxy)Met+	5300U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	5300U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Octyl Phthalate	420J*	ug/kg
Hexachlorobenzene	5300UJ	ug/kg
Anthracene	5300UJ	ug/kg
1,2,4-Trichlorobenzene	5300U	ug/kg
2,4-Dichlorophenol	5300U	ug/kg
2,4-Dinitrotoluene	14000U	ug/kg
Pyrene	10000N*	ug/kg
Dimethylphthalate	5300U	ug/kg
Dibenzofuran	5300U	ug/kg
Benzo(ghi)perylene	1200NJ*	ug/kg
Indeno(1,2,3-cd)pyrene	5300U	ug/kg
Benzo(b)fluoranthene	2200J*	ug/kg
Fluoranthene	5300UJ	ug/kg
Benzo(k)fluoranthene	5300UJ	ug/kg
Acenaphthylene	5300U	ug/kg
Chrysene	4900JN*	ug/kg
Retene	5300U	ug/kg
4,6-Dinitro-2-methylph+	70000UJ	ug/kg
1,3-Dichlorobenzene	5300U	ug/kg
2,6-Dinitrotoluene	14000U	ug/kg
N-Nitroso-di-n-Propyla+	5300U	ug/kg
4-Chlorophenyl-phenyle+	5300UJ	ug/kg
BIS(2OCHLOROISOPROPYL)+	5300U	ug/kg
Surrog: 2-Fluorobiphen+	103	% Recov
Surrog: 2-Fluorophenol	21	% Recov
Surrog: D14-Terphenyl	30	% Recov
PYRENE-D10 (SS)	35	% Recov
Surrog: D5-Nitrobenzene	62	% Recov
Surrog: D5-Phenol	47	% Recov

B/N/Acid Scan Matrix Spike #1	Sediment Result	Units
Benzo(a)pyrene	52	% Recov
2,4-Dinitrophenol	0.001UJ	% Recov
Dibenzo(a,h)anthracene	51	% Recov
Benzo(a)anthracene	76	% Recov
4-Chloro-3-Methylphenol	0.0004U	% Recov
Benzoic acid	0.001UJ	% Recov
Hexachloroethane	84	% Recov
Hexachlorocyclopentadi+	0.0004UJ	% Recov
Isophorone	28	% Recov
Acenaphthene	48	% Recov

B/N/Acid Scan *** Continued *** Matrix Spike #1	Sediment Result	Units
Diethylphthalate	0.0001U	% Recov
Di-n-Butylphthalate	44	% Recov
Phenanthrene	55	% Recov
Butylbenzylphthalate	37	% Recov
N-Nitrosodiphenylamine	0.001U	% Recov
Fluorene	38	% Recov
Carbazole	0.0004UJ	% Recov
Hexachlorobutadiene	55J	% Recov
Pentachlorophenol	0.0004U	% Recov
2,4,6-Trichlorophenol	0.0002UJ	% Recov
2-Nitroaniline	25	% Recov
2-Nitrophenol	0.0002U	% Recov
Naphthalene, 1-Methyl-	0.0001U	% Recov
Naphthalene	74	% Recov
2-Methylnaphthalene	87	% Recov
2-Chloronaphthalene	47	% Recov
3,3'-Dichlorobenzidine	0.002U	% Recov
2-Methylphenol	94	% Recov
1,2-Dichlorobenzene	52	% Recov
o-Chlorophenol (2-Chlo+	0.0001U	% Recov
2,4,5-Trichlorophenol	0.0004UJ	% Recov
Nitrobenzene	67	% Recov
3-Nitroaniline	0.001UJ	% Recov
4-Nitroaniline	0.001U	% Recov
4-Nitrophenol	0.001U	% Recov
Benzyl Alcohol	89	% Recov
4-Bromophenyl-phenylet+	0.0001UJ	% Recov
2,4-Dimethylphenol	60	% Recov
4-Methylphenol	93	% Recov
1,4-Dichlorobenzene	51	% Recov
4-Chloroaniline	0.001U	% Recov
Phenol	0.0001U	% Recov
bis(2-Chloroethyl)Ether	54	% Recov
bis(2-Chloroethoxy)Met+	66	% Recov
BIS(2-ETHYLHEXYL) PHTH+	130J	% Recov
Di-n-Octyl Phthalate	110J	% Recov
Hexachlorobenzene	0.0001UJ	% Recov
Anthracene	55	% Recov
1,2,4-Trichlorobenzene	69	% Recov
2,4-Dichlorophenol	0.0001U	% Recov
2,4-Dinitrotoluene	0.0002U	% Recov
Pyrene	82	% Recov
Dimethylphthalate	0.0001U	% Recov
Dibenzofuran	7	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: M2R Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352359 Description: ORS02 Source: Sludge (Waste Pond)

Begin Date: 92/08/25 12:00

B/N/Acid Scan *** Continued *** Matrix Spike #1	Sediment Result	Units
Benzo(ghi)perylene	15	% Recov
Indeno(1,2,3-cd)pyrene	37	% Recov
Benzo(b)fluoranthene	110	% Recov
Fluoranthene	100	% Recov
Benzo(k)fluoranthene	92	% Recov
Acenaphthylene	0.0001U	% Recov
Chrysene	120	% Recov
Retene	0.0001U	% Recov
4,6-Dinitro-2-methylph+	0.001UJ	% Recov
1,3-Dichlorobenzene	51	% Recov
2,6-Dinitrotoluene	0.0002U	% Recov
N-Nitroso-di-n-Propyla+	110	% Recov
4-Chlorophenyl-phenyle+	0.0001UJ	% Recov
BIS(2OCHLOROISOPROPYL)+	63J	% Recov
Surrog: 2-Fluorobiphen+	165	% Recov
Surrog: 2-Fluorophenol	109	% Recov
Surrog: D14-Terphenyl	47	% Recov
PYRENE-D10 (SS)	31	% Recov
Surrog: D5-Nitrobenzene	120	% Recov
Surrog: D5-Phenol	133	% Recov

B/N/Acid Scan *** Continued *** Matrix Spike #2	Sediment Result	Units
Benzo(a)pyrene	70	% Recov
2,4-Dinitrophenol	0.006UJ	% Recov
Dibenzo(a,h)enthracene	40	% Recov
Benzo(a)anthracene	56	% Recov
4-Chloro-3-Methylphenol	35	% Recov
Benzoic acid	0.006UJ	% Recov
Hexachloroethane	34	% Recov
Hexachlorocyclopentadi+	0.002UJ	% Recov
Isophorone	7	% Recov
Acenaphthene	75	% Recov
Diethylphthelate	0.0005U	% Recov
Di-n-Butylphthalate	23	% Recov
Phenanthrene	35	% Recov
Butylbenzylphthalate	22	% Recov
N-Nitrosodiphenylamine	5	% Recov
Fluorene	64	% Recov
Carbazole	0.002UJ	% Recov
Hexachlorobutadiene	21J	% Recov
Pentachlorophenol	0.002U	% Recov

B/N/Acid Scan *** Continued *** Matrix Spike #2	Sediment Result	Units
2,4,6-Trichlorophenol	0.001UJ	% Recov
2-Nitroaniline	0.001U	% Recov
2-Nitrophenol	0.001U	% Recov
Naphthalene, 1-Methyl-	0.0005U	% Recov
Naphthalene	62	% Recov
2-Methylnaphthalene	43	% Recov
2-Chloronaphthalene	69	% Recov
3,3'-Dichlorobenzidine	0.01U	% Recov
2-Methylphenol	65	% Recov
1,2-Dichlorobenzene	48	% Recov
o-Chlorophenol (2-Chlo+	50	% Recov
2,4,5-Trichlorophenol	0.002UJ	% Recov
Nitrobenzene	57	% Recov
3-Nitroaniline	0.006UJ	% Recov
4-Nitroaniline	0.006U	% Recov
4-Nitrophenol	0.006U	% Recov
Benzyl Alcohol	78J	% Recov
4-Bromophenyl-phenylet+	31J	% Recov
2,4-Dimethylphenol	68	% Recov
4-Methylphenol	70	% Recov
1,4-Dichlorobenzene	54	% Recov
4-Chloroaniline	0.006U	% Recov
Phenol	41	% Recov
bis(2-Chloroethyl)Ether	47	% Recov
bis(2-Chloroethoxy)Met+	58	% Recov
BIS(2-ETHYLHEXYL) PHTH+	68J	% Recov
Di-n-Octyl Phthalate	56J	% Recov
Hexachlorobenzene	27J	% Recov
Anthracene	37	% Recov
1,2,4-Trichlorobenzene	58	% Recov
2,4-Dichlorophenol	21	% Recov
2,4-Dinitrotoluene	0.001U	% Recov
Pyrene	87	% Recov
Dimethylphthelate	1	% Recov
Dibenzofuran	17	% Recov
Benzo(ghi)perylene	42	% Recov
Indeno(1,2,3-cd)pyrene	41	% Recov
Benzo(b)fluoranthene	87	% Recov
Fluoranthene	43	% Recov
Benzo(k)fluoranthene	69	% Recov
Acenaphthylene	68	% Recov
Chrysene	82	% Recov
Retene	0.0005U	% Recov
4,6-Dinitro-2-methylph+	0.006UJ	% Recov

B/N/Acid Scan *** Continued *** Matrix Spike #2	Sediment Result	Units
1,3-Dichlorobenzene	39	% Recov
2,6-Dinitrotoluene	0.001U	% Recov
N-Nitroso-di-n-Propyla+	28	% Recov
4-Chlorophenyl-phenyle+	0.0005UJ	% Recov
BIS(2OCHLOROISOPROPYL)+	56J	% Recov
Surrog: 2-Fluorobiphen+	150	% Recov
Surrog: 2-Fluorophenol	66	% Recov
Surrog: D14-Terphenyl	45	% Recov
PYRENE-D10 (SS)	48	% Recov
Surrog: D5-Nitrobenzene	108	% Recov
Surrog: D5-Phenol	77	% Recov

B/N/Acid Scan Duplicate #1	Sediment Result	Units
Benzo(a)pyrene	0.0001U	% Recov
2,4-Dinitrophenol	0.0002U	% Recov
Dibenzo(a,h)enthracene	0.0003U	% Recov
Benzo(a)anthracene	0.0001U	% Recov
4-Chloro-3-Methylphenol	0.0001U	% Recov
Benzoic acid	0.0002U	% Recov
Hexachloroethane	52	% Recov
Hexachlorocyclopentedi+	0.0001U	% Recov
Isophorone	92	% Recov
Acenaphthene	68	% Recov
Diethylphthelate	55	% Recov
Di-n-Butylphthelate	8	% Recov
Phenanthrene	0.0001U	% Recov
Butylbenzylphthelate	0.0003U	% Recov
N-Nitrosodiphenylamine	0.0002U	% Recov
Fluorene	71	% Recov
Carbazole	0.0001UJ	% Recov
Hexachlorobutadiene	31	% Recov
Pentachlorophenol	0.0001U	% Recov
2,4,6-Trichlorophenol	0.0003U	% Recov
2-Nitroaniline	48	% Recov
2-Nitrophenol	0.0003U	% Recov
Naphthalene, 1-Methyl-	0.0001U	% Recov
Naphthalene	68	% Recov
2-Methylnaphthalene	60	% Recov
2-Chloronaphthalene	0.0001U	% Recov
3,3'-Dichlorobenzidine	0.0003U	% Recov
2-Methylphenol	0.0001U	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352359 Description: ORS02 Source: Sludge (Waste Pond)

Begin Date: 92/08/25 12:00

B/N/Acid Scan *** Continued *** Duplicate #1	Sediment Result	Units
1,2-Dichlorobenzene	45	% Recov
o-Chlorophenol (2-Chlo+	0.0001U	% Recov
2,4,5-Trichlorophenol	0.0001U	% Recov
Nitrobenzene	65	% Recov
3-Nitroaniline	0.0002UJ	% Recov
4-Nitroaniline	0.0002U	% Recov
4-Nitrophenol	0.0002U	% Recov
Benzyl Alcohol	35	% Recov
4-Bromophenyl-phenylet+	0.0001U	% Recov
2,4-Dimethylphenol	0.0001U	% Recov
4-Methylphenol	0.0001U	% Recov
1,4-Dichlorobenzene	84	% Recov
4-Chloroaniline	0.0002U	% Recov
Phenol	0.0001U	% Recov
bis(2-Chloroethyl)Ether	64	% Recov
bis(2-Chloroethoxy)Met+	66	% Recov
BIS(2-ETHYLHEXYL) PHTH+	11	% Recov
Di-n-Octyl Phthalate	5	% Recov
Hexachlorobenzene	0.0001UJ	% Recov
Anthracene	0.0001U	% Recov
1,2,4-Trichlorobenzene	54	% Recov
2,4-Dichlorophenol	0.0001U	% Recov
2,4-Dinitrotoluene	0.0003U	% Recov
Pyrene	0.0001U	% Recov
Dimethylphthalate	35	% Recov
Dibenzofuran	32	% Recov
Benzo(ghi)perylene	0.0001U	% Recov
Indeno(1,2,3-cd)pyrene	0.0001U	% Recov
Benzo(b)fluoranthene	0.0001U	% Recov
Fluoranthene	0.0001U	% Recov
Benzo(k)fluoranthene	0.0001U	% Recov
Acenaphthylene	0.0001U	% Recov
Chrysene	0.0001U	% Recov
Retene	0.0001U	% Recov
4,6-Dinitro-2-methylph+	0.0002U	% Recov
1,3-Dichlorobenzene	84	% Recov
2,6-Dinitrotoluene	0.0003U	% Recov
N-Nitroso-di-n-Propyla+	40	% Recov
Surrog: 2-Fluorobiphen+	0	% Recov
Surrog: 2-Fluorophenol	8	% Recov
4-Chlorophenyl-phenyle+	0.0001U	% Recov
Surrog: D14-Terphenyl	0	% Recov
PYRENE-D10 (SS)	0	% Recov
Surrog: D5-Nitrobenzene	118	% Recov
Surrog: D5-Phenol	0	% Recov
BIS(2OCHLOROISOPROPYL)+	58	% Recov

B/N/Acid Scan *** Continued *** Duplicate #2	Sediment Result	Units
Benzo(a)pyrene	0.02U	% Recov
2,4-Dinitrophenol	0.2U	% Recov
Dibenzo(a,h)anthracene	0.05U	% Recov
Benzo(a)anthracene	0.02U	% Recov
4-Chloro-3-Methylphenol	0.1U	% Recov
Benzoic acid	0.2U	% Recov
Hexachloroethane	44	% Recov
Hexachlorocyclopentadi+	0.1U	% Recov
Isophorone	109	% Recov
Acenaphthene	53	% Recov
Diethylphthalate	56	% Recov
Di-n-Butylphthalate	23	% Recov
Phenanthrene	0.02U	% Recov
Butylbenzylphthalate	15J	% Recov
N-Nitrosodiphenylamine	0.2U	% Recov
Fluorene	37	% Recov
Carbazole	0.1UJ	% Recov
Hexachlorobutadiene	41	% Recov
Pentachlorophenol	0.1U	% Recov
2,4,6-Trichlorophenol	0.05U	% Recov
2-Nitroaniline	44J	% Recov
2-Nitrophenol	0.05U	% Recov
Naphthalene, 1-Methyl-	0.02U	% Recov
Naphthalene	71	% Recov
2-Methylnaphthalene	54	% Recov
2-Chloronaphthalene	78	% Recov
3,3'-Dichlorobenzidine	0.5U	% Recov
2-Methylphenol	0.02U	% Recov
1,2-Dichlorobenzene	65	% Recov
o-Chlorophenol (2-Chlo+	0.02U	% Recov
2,4,5-Trichlorophenol	0.1U	% Recov
Nitrobenzene	80	% Recov
3-Nitroaniline	0.2UJ	% Recov
4-Nitroaniline	0.2U	% Recov
4-Nitrophenol	0.2U	% Recov
Benzyl Alcohol	52	% Recov
4-Bromophenyl-phenylat+	0.02U	% Recov

B/N/Acid Scan *** Continued *** Duplicate #2	Sediment Result	Units
2,4-Dimethylphenol	0.02U	% Recov
4-Methylphenol	0.02U	% Recov
1,4-Dichlorobenzene	130	% Recov
4-Chloroaniline	0.2U	% Recov
Phenol	0.02U	% Recov
bis(2-Chloroethyl)Ether	75	% Recov
bis(2-Chloroethoxy)Met+	75	% Recov
BIS(2-ETHYLHEXYL) PHTH+	4J	% Recov
Di-n-Octyl Phthalate	12J	% Recov
Hexachlorobenzene	0.02U	% Recov
Anthracene	0.02U	% Recov
1,2,4-Trichlorobenzene	72	% Recov
2,4-Dichlorophenol	0.02U	% Recov
2,4-Dinitrotoluene	0.05U	% Recov
Pyrene	0.02U	% Recov
Dimethylphthalate	80	% Recov
Dibenzofuran	27	% Recov
Benzo(ghi)perylene	0.02U	% Recov
Indeno(1,2,3-cd)pyrene	0.02U	% Recov
Benzo(b)fluoranthene	0.02U	% Recov
Fluoranthene	0.02U	% Recov
Benzo(k)fluoranthene	0.02U	% Recov
Acenaphthylene	66	% Recov
Chrysene	0.02U	% Recov
Retene	0.02U	% Recov
4,6-Dinitro-2-methylph+	0.2U	% Recov
1,3-Dichlorobenzene	130	% Recov
2,6-Dinitrotoluene	0.05U	% Recov
N-Nitroso-di-n-Propyla+	51	% Recov
Surrog: 2-Fluorobiphen+	193	% Recov
Surrog: 2-Fluorophenol	9	% Recov
4-Chlorophenyl-phenyle+	0.02U	% Recov
Surrog: D14-Terphenyl	0	% Recov
PYRENE-D10 (SS)	0	% Recov
Surrog: D5-Nitrobenzene	144	% Recov
Surrog: D5-Phenol	0	% Recov
BIS(2OCHLOROISOPROPYL)+	68	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: M2R Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352359 Description: ORS02 Source: Sludge (Waste Pond)

Begin Date: 92/08/25 12:00

Tent Ident - B/N/Aci	Sediment Result	Units
UNKNOWN HYDROCARBON #1	5600NJ*	ug/kg
UNKNOWN HYDROCARBON #2	10000NJ*	ug/kg
PENTADECANE, 2-METNYL-	8500NJ*	ug/kg
9-OCTADECENE, (E)-	13000NJ*	ug/kg
UNKNOWN HYDROCARBON 3	24000NJ*	ug/kg
UNKNOWN HYDROCARBON 4	620000NJ*	ug/kg
UNKNOWN HYDROCARBON 5	220000NJ*	ug/kg
UNKNOWN HYDROCARBON 6	220000NJ*	ug/kg
UNKNOWN COMPOUND 1	96000NJ*	ug/kg
UNKNOWN COMPOUND 2	8000NJ*	ug/kg
UNKNOWN COMPOUND 3	19000NJ*	ug/kg
UNKNOWN COMPOUND 4	96000NJ*	ug/kg
HEPTADECANE, 2,6-DIMET+	22500NJ*	ug/kg
9-EICOSENE, (E)-	16000NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352360 Description: SS001 Source: Sediment (General)

Begin Date: 92/08/25 12:30

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	13JN*	ug/kg
2,4-Dinitrophenol	REJ	ug/kg
Dibenzo(a,h)anthracene	350U	ug/kg
Benzo(a)anthracene	31NJ*	ug/kg
4-Chloro-3-Methylphenol	REJ	ug/kg
Benzoic acid	REJ	ug/kg
Hexachloroethane	140U	ug/kg
Hexachlorocyclopentadi+	710U	ug/kg
Isophorone	27J*	ug/kg
Acenaphthene	140U	ug/kg
Diethylphthalate	140U	ug/kg
Di-n-Butylphthalate	230U	ug/kg
Phenanthrene	49J*	ug/kg
Butylbenzylphthalate	140U	ug/kg
N-Nitrosodiphenylamine	24J*	ug/kg
Fluorene	140U	ug/kg
Carbazole	68J*	ug/kg
Hexachlorobutadiene	350U	ug/kg
Pentachlorophenol	REJ	ug/kg
2,4,6-Trichlorophenol	REJ	ug/kg
2-Nitroaniline	350U	ug/kg
2-Nitrophenol	REJ	ug/kg
Naphthalene, 1-Methyl-	4JN*	ug/kg
Naphthalene	10J*	ug/kg
2-Methylnaphthalene	6J*	ug/kg
2-Chloronaphthalene	140U	ug/kg
3,3'-Dichlorobenzidine	3500U	ug/kg
2-Methylphenol	REJ	ug/kg
1,2-Dichlorobenzene	140U	ug/kg
o-Chlorophenol (2-Chlo+	REJ	ug/kg
2,4,5-Trichlorophenol	REJ	ug/kg
Nitrobenzene	140U	ug/kg
3-Nitroaniline	REJ	ug/kg
4-Nitroaniline	1800U	ug/kg
4-Nitrophenol	REJ	ug/kg
Benzyl Alcohol	710U	ug/kg
4-Bromophenyl-phenylet+	140U	ug/kg
2,4-Dimethylphenol	REJ	ug/kg
4-Methylphenol	REJ	ug/kg
1,4-Dichlorobenzene	140U	ug/kg
4-Chloroaniline	1800UJ	ug/kg
Phenol	REJ	ug/kg
bis(2-Chloroethyl)Ether	140U	ug/kg
bis(2-Chloroethoxy)Met+	12J*	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	8600J*	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Octyl Phthalate	140U	ug/kg
Hexachlorobenzene	140U	ug/kg
Anthracene	140U	ug/kg
1,2,4-Trichlorobenzene	140U	ug/kg
2,4-Dichlorophenol	REJ	ug/kg
2,4-Dinitrotoluene	350U	ug/kg
Pyrene	64J*	ug/kg
Dimethylphthalate	140U	ug/kg
Dibenzofuran	3NJ*	ug/kg
Benzo(ghi)perylene	140U	ug/kg
Indeno(1,2,3-cd)pyrene	140U	ug/kg
Benzo(b)fluoranthene	16JN*	ug/kg
Fluoranthene	23J*	ug/kg
Benzo(k)fluoranthene	140U	ug/kg
Acenaphthylene	140U	ug/kg
Chrysene	85J*	ug/kg
Retene	140U	ug/kg
4,6-Dinitro-2-methylph+	REJ	ug/kg
1,3-Dichlorobenzene	140U	ug/kg
2,6-Dinitrotoluene	350U	ug/kg
N-Nitroso-di-n-Propyla+	140UJ	ug/kg
4-Chlorophenyl-phenyle+	140U	ug/kg
BIS(2OCHLOROISOPROPYL)+	140UJ	ug/kg
Surrog: 2-Fluorobiphen+	95	% Recov
Surrog: 2-Fluorophenol	38	% Recov
Surrog: D14-Terphenyl	101	% Recov
PYRENE-D10 (SS)	80	% Recov
Surrog: D5-Nitrobenzene	100	% Recov
Surrog: D5-Phenol	5	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
HEXANEDIOIC ACID, BIS(+	860NJ*	ug/kg
HEXANEDIOIC ACID, bis(+	3900NJ*	ug/kg
2-PENTANONE	2.1NJ*	ug/kg
1,2-BENZENEDICARBOXYLI+	160NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	2.11NJ*	ug/kg
GLYCOCYANIDINE	34NJ*	ug/kg
GLYCOCYANIDINE	300NJ*	ug/kg
2-HEXANOL	96000NJ*	ug/kg
2-CYCLOHEXEN-1-ONE, 3,+	2.1NJ*	ug/kg
PHENANTHRENE, 2,3-DIME+	150NJ*	ug/kg

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
PHENANTHRENE, 2,3,5-TR+	170NJ*	ug/kg
HEXANEDIOIC ACID, MONO+	3800NJ*	ug/kg
UNKNOWN HYDROCARBON 1	370NJ*	ug/kg
UNKNOWN HYDROCARBON 2	160NJ*	ug/kg
UNKNOWN HYDROCARBON 3	220NJ*	ug/kg
UNKNOWN HYDROCARBON 4	240NJ*	ug/kg
UNKNOWN HYDROCARBON 5	360NJ*	ug/kg
UNKNOWN HYDROCARBON 6	440NJ*	ug/kg
UNKNOWN HYDROCARBON 7	460NJ*	ug/kg
UNKNOWN HYDROCARBON 8	410NJ*	ug/kg
UNKNOWN HYDROCARBON 9	670NJ*	ug/kg
UNKNOWN HYDROCARBON 10	420NJ*	ug/kg
UNKNOWN HYDROCARBON 11	610NJ*	ug/kg
UNKNOWN COMPOUND 1	950NJ*	ug/kg
UNKNOWN COMPOUND 2	420NJ*	ug/kg
UNKNOWN COMPOUND 3	200NJ*	ug/kg
UNKNOWN COMPOUND 4	120NJ*	ug/kg
UNKNOWN COMPOUND 5	130NJ*	ug/kg
UNKNOWN COMPOUND 6	290NJ*	ug/kg
UNKNOWN COMPOUND 7	88NJ*	ug/kg
UNKNOWN COMPOUND 8	1500NJ*	ug/kg
2-HEXANONE, 6-BROMO-	19JN*	ug/kg
CYCLOHEPTENE, 1-CHLORO-5.7EXP8NJ*		ug/kg
ETHANONE, 1-13-ETHYLOX+	1400NJ*	ug/kg
HEXANE, 1-PROPOXY-	2.1NJ*	ug/kg
N,N'-BIS(2-METHYL-2-N1+	48NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352361 Description: SS002 Source: Sediment (General)

Begin Date: 92/08/25 11:00

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	630U	ug/kg
2,4-Dinitrophenol	REJ	ug/kg
Dibenzo(a,h)anthracene	1600U	ug/kg
Benzo(a)anthracene	630U	ug/kg
4-Chloro-3-Methylphenol	REJ	ug/kg
Benzoic acid	REJ	ug/kg
Hexachloroethane	630U	ug/kg
Hexachlorocyclopentadi+	3300U	ug/kg
Isophorone	110J*	ug/kg
Acenaphthene	630U	ug/kg
Diethylphthalate	630U	ug/kg
Di-n-Butylphthalate	630U	ug/kg
Phenanthrene	180J*	ug/kg
Butylbenzylphthalate	1600U	ug/kg
N-Nitrosodiphenylamine	86J*	ug/kg
Fluorene	630U	ug/kg
Carbazole	29J*	ug/kg
Hexachlorobutadiene	1600U	ug/kg
Pentachlorophenol	REJ	ug/kg
2,4,6-Trichlorophenol	REJ	ug/kg
2-Nitroaniline	1600U	ug/kg
2-Nitrophenol	REJ	ug/kg
Naphthalene, 1-Methyl-	84JN*	ug/kg
Naphthalene	630U	ug/kg
2-Methylnaphthalene	63JN*	ug/kg
2-Chloronaphthalene	630U	ug/kg
3,3'-Dichlorobenzidine	16000U	ug/kg
2-Methylphenol	REJ	ug/kg
1,2-Dichlorobenzene	630U	ug/kg
o-Chlorophenol (2-Chlo+	REJ	ug/kg
2,4,5-Trichlorophenol	REJ	ug/kg
Nitrobenzene	630U	ug/kg
3-Nitroaniline	REJ	ug/kg
4-Nitroaniline	8300U	ug/kg
4-Nitrophenol	REJ	ug/kg
Benzyl Alcohol	1500J*	ug/kg
4-Bromophenyl-phenylet+	630U	ug/kg
2,4-Dimethylphenol	REJ	ug/kg
4-Methylphenol	REJ	ug/kg
1,4-Dichlorobenzene	630U	ug/kg
4-Chloroaniline	8300UJ	ug/kg
Phenol	REJ	ug/kg
bis(2-Chloroethyl)Ether	630U	ug/kg
bis(2-Chloroethoxy)Met+	630U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	950U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Octyl Phthalate	630U	ug/kg
Hexachlorobenzene	630U	ug/kg
Anthracene	180J*	ug/kg
1,2,4-Trichlorobenzene	630U	ug/kg
2,4-Dichlorophenol	REJ	ug/kg
2,4-Dinitrotoluene	1600U	ug/kg
Pyrene	280J*	ug/kg
Dimethylphthalate	630U	ug/kg
Dibenzofuran	630U	ug/kg
Benzo(ghi)perylene	630U	ug/kg
Indeno(1,2,3-cd)pyrene	630U	ug/kg
Benzo(b)fluoranthene	630U	ug/kg
Fluoranthene	630U	ug/kg
Benzo(k)fluoranthene	630U	ug/kg
Acenaphthylene	630U	ug/kg
Chrysene	630U	ug/kg
Retene	240J*	ug/kg
4,6-Dinitro-2-methylph+	REJ	ug/kg
1,3-Dichlorobenzene	630U	ug/kg
2,6-Dinitrotoluene	1600U	ug/kg
N-Nitroso-di-n-Propyla+	630UJ	ug/kg
4-Chlorophenyl-phenyle+	630U	ug/kg
BIS(2OCHLOROISOPROPYL)+	630UJ	ug/kg
Surrog: 2-Fluorobiphen+	105	% Recov
Surrog: 2-Fluorophenol	52	% Recov
Surrog: D14-Terphenyl	100	% Recov
PYRENE-D10 (SS)	84	% Recov
Surrog: D5-Nitrobenzene	70	% Recov
Surrog: D5-Phenol	0	% Recov

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
NAPHTHALENE, 1,6,7-TRI+	2500NJ*	ug/kg
ERGOSTA-7,22-DIEN-3-OL+	670NJ*	ug/kg
PHENANTHRENE, 2-METHYL-	520NJ*	ug/kg
NAPHTHALENE, 1,3,6-TRI+	930NJ*	ug/kg
PHENANTHRENE, 2,3-DIME+	1700NJ*	ug/kg
UNKNOWN HYDROCARBON 1	1200NJ*	ug/kg
UNKNOWN HYDROCARBON 2	2300NJ*	ug/kg
UNKNOWN HYDROCARBON 3	8800NJ*	ug/kg
UNKNOWN HYDROCARBON 4	2700NJ*	ug/kg
UNKNOWN HYDROCARBON 5	2700NJ*	ug/kg
UNKNOWN COMPOUND 1	1300NJ*	ug/kg
UNKNOWN COMPOUND 2	940NJ*	ug/kg
UNKNOWN COMPOUND 3	640NJ*	ug/kg
UNKNOWN COMPOUND 4	5600NJ*	ug/kg
UNKNOWN COMPOUND 5	860NJ*	ug/kg
UNKNOWN COMPOUND 6	660NJ*	ug/kg
UNKNOWN COMPOUND 7	970NJ*	ug/kg
UNKNOWN COMPOUND 8	1200NJ*	ug/kg
UNKNOWN COMPOUND 9	7200NJ*	ug/kg
UNKNOWN COMPOUND 10	3800NJ*	ug/kg
2-HEXANONE, 6-BROMO-	660NJ*	ug/kg
PENTANE, 1,3-EPOXY-4-M+	1700NJ*	ug/kg
OXIRANE, 2,2-DIMETHYL-+	1300NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	3400NJ*	ug/kg
1-HEXADECANOL	760NJ*	ug/kg
HEXANE, 1-PROPOXY-	1700NJ*	ug/kg
2-PENTENE, 5-(PENTYLOX+	1100NJ*	ug/kg
2-CYCLOHEXEN-1-ONE, 3,+	3800NJ*	ug/kg
KAUREN-18-OL, ACETATE,+	930NJ*	ug/kg
2,6-DIMETHYL-6-NITRO-2+	360NJ*	ug/kg
NAPHTHALENE, 1,2(OR 2,+	220NJ*	ug/kg

Tent Ident - B/N/Aci	Sediment Result	Units
2-HEPTANOL ACETATE	2200NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	14000NJ*	ug/kg
1-HEXACOSANOL	1100NJ*	ug/kg
2-Hexenone	4000NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	4200NJ*	ug/kg
2-HEXANOL	4400NJ*	ug/kg
PHENANTHRENE, 4-METHYL-	780NJ*	ug/kg
2-CYCLOHEXEN-1-ONE, 3,+	1300NJ*	ug/kg
CYCLOPENTANOL, 1-METHY+	3900NJ*	ug/kg
NAPHTHALENE, 2-(1-METH+	2000NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352362 Description: SS003 Source: Sediment (General)

Begin Date: 92/08/25 10:25

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	130U	ug/kg
2,4-Dinitrophenol	1600UJ	ug/kg
Dibenzo(a,h)anthracene	320U	ug/kg
Benzo(a)anthracene	17J*	ug/kg
4-Chloro-3-Methylphenol	640U	ug/kg
Benzoic acid	1600UJ	ug/kg
Hexachloroethane	130U	ug/kg
Hexachlorocyclopentadi+	640U	ug/kg
Isophorone	7J*	ug/kg
Acenaphthene	130U	ug/kg
Diethylphthalate	130U	ug/kg
Di-n-Butylphthalate	130U	ug/kg
Phenanthrene	9NJ*	ug/kg
Butylbenzylphthalate	130U	ug/kg
N-Nitrosodiphenylamine	1600UJ	ug/kg
Fluorene	130U	ug/kg
Carbazole	640UJ	ug/kg
Hexachlorobutadiene	320U	ug/kg
Pentachlorophenol	640UJ	ug/kg
2,4,6-Trichlorophenol	320U	ug/kg
2-Nitroaniline	320U	ug/kg
2-Nitrophenol	320U	ug/kg
Naphthalene, 1-Methyl-	130U	ug/kg
Naphthalene	130U	ug/kg
2-Methylnaphthalene	130U	ug/kg
2-Chloronaphthalene	130U	ug/kg
3,3'-Dichlorobenzidine	3200U	ug/kg
2-Methylphenol	130U	ug/kg
1,2-Dichlorobenzene	130U	ug/kg
o-Chlorophenol (2-Chlo+	130U	ug/kg
2,4,5-Trichlorophenol	640U	ug/kg
Nitrobenzene	130U	ug/kg
3-Nitroaniline	REJ	ug/kg
4-Nitroaniline	1600U	ug/kg
4-Nitrophenol	1600UJ	ug/kg
Benzyl Alcohol	640U	ug/kg
4-Bromophenyl-phenylet+	130U	ug/kg
2,4-Dimethylphenol	130UJ	ug/kg
4-Methylphenol	130U	ug/kg
1,4-Dichlorobenzene	130U	ug/kg
4-Chloroaniline	1600UJ	ug/kg
Phenol	130U	ug/kg
bis(2-Chloroethyl)Ether	130U	ug/kg
bis(2-Chloroathoxy)Met+	130U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	980U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Octyl Phthalate	130U	ug/kg
Hexachlorobenzene	130U	ug/kg
Anthracene	130U	ug/kg
1,2,4-Trichlorobenzene	130U	ug/kg
2,4-Dichlorophenol	130U	ug/kg
2,4-Dinitrotoluene	320U	ug/kg
Pyrene	8NJ*	ug/kg
Dimethylphthalate	130U	ug/kg
Dibenzofuran	130U	ug/kg
Benzo(ghi)perylene	130U	ug/kg
Indeno(1,2,3-cd)pyrene	130U	ug/kg
Benzo(b)fluoranthene	130U	ug/kg
Fluoranthene	6NJ*	ug/kg
Benzo(k)fluoranthene	130U	ug/kg
Acenaphthylene	130U	ug/kg
Chrysene	12J*	ug/kg
Retene	130U	ug/kg
4,6-Dinitro-2-methylph+	1600UJ	ug/kg
1,3-Dichlorobenzene	130U	ug/kg
2,6-Dinitrotoluene	320U	ug/kg
N-Nitroso-di-n-Propyla+	130UJ	ug/kg
4-Chlorophenyl-phenyle+	130U	ug/kg
BIS(2OCHLOROISOPROPYL)+	130UJ	ug/kg
Surrog: 2-Fluorobiphen+	76	% Recov
Surrog: 2-Fluorophenol	22	% Recov
Surrog: Di4-Terphenyl	92	% Recov
PYRENE-D10 (SS)	89	% Recov
Surrog: D5-Nitrobenzene	73	% Recov
Surrog: D5-Phenol	31	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
CHOLESTEROL	240NJ*	ug/kg
ETHANE, 1,1,2,2-TETRAC+	750NJ*	ug/kg
.GAMMA.-SITOSTEROL	140NJ*	ug/kg
HEXANEDIOIC ACID, BIS(+	58NJ*	ug/kg
Decanoic Acid, Methyl +	70NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	6400NJ*	ug/kg
CYCLOHEXADECANE	320NJ*	ug/kg
2-Hexanone	800NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	820NJ*	ug/kg
3-HEXANOL	1400NJ*	ug/kg

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
2-HEXANOL	1400NJ*	ug/kg
9-HEXADECENOIC ACID, M+	50NJ*	ug/kg
2-CYCLOHEXEN-1-ONE, 3,+	390NJ*	ug/kg
CYCLOPENTANOL, 1-METHY+	1100NJ*	ug/kg
2-HEXANONE, 6-(ACETYLO+	1300NJ*	ug/kg
2-PENTANONE, 5-(ACETYL+	1500NJ*	ug/kg
CYCLOPENTENE, 1-ISOPRO+	240NJ*	ug/kg
UNKNOWN HYDROCARBON 1	67NJ*	ug/kg
UNKNOWN HYDROCARBON 2	130NJ*	ug/kg
UNKNOWN HYDROCARBON 3	250NJ*	ug/kg
UNKNOWN HYDROCARBON 4	290NJ*	ug/kg
UNKNOWN COMPOUND 1	470NJ*	ug/kg
UNKNOWN COMPOUND 2	150NJ*	ug/kg
UNKNOWN COMPOUND 3	300NJ*	ug/kg
UNKNOWN COMPOUND 3	95NJ*	ug/kg
2-HEXANONE, 6-BROMO-	850NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	260NJ*	ug/kg
1-HEXADECANOL	100NJ*	ug/kg
1,E-4,Z-8-DODECATRIENE	89NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU2Z

Laboratory: EPA, Manchester

Sample No: 92 352363 Description: SS004 Source: Sediment (General)

Begin Date: 92/08/25 11:30

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	1000U	ug/kg
2,4-Dinitrophenol	13000UJ	ug/kg
Dibenzo(a,h)anthracene	2600U	ug/kg
Benzo(a)anthracene	80J*	ug/kg
4-Chloro-3-Methylphenol	5200U	ug/kg
Benzoic acid	13000UJ	ug/kg
Hexachloroethane	1000U	ug/kg
Hexachlorocyclopentadi+	5200UJ	ug/kg
Isophorone	1000U	ug/kg
Acenaphthene	1000U	ug/kg
Diethylphthalate	1000U	ug/kg
Di-n-Butylphthalate	1000U	ug/kg
Phenanthrene	310JN*	ug/kg
Butylbenzylphthalate	2600U	ug/kg
N-Nitrosodiphenylamine	2900J*	ug/kg
Fluorene	1000U	ug/kg
Carbazole	5200UJ	ug/kg
Hexachlorobutadiene	2600U	ug/kg
Pentachlorophenol	5200UJ	ug/kg
2,4,6-Trichlorophenol	2600UJ	ug/kg
2-Nitroaniline	2600U	ug/kg
2-Nitrophenol	2600U	ug/kg
Naphthalene, 1-Methyl-	1000U	ug/kg
Naphthalene	1000U	ug/kg
2-Methylnaphthalene	89NJ*	ug/kg
2-Chloronaphthalene	1000U	ug/kg
3,3'-Dichlorobenzidine	26000U	ug/kg
2-Methylphenol	1000U	ug/kg
1,2-Dichlorobenzene	1000U	ug/kg
o-Chlorophenol (2-Chlo+	1000U	ug/kg
2,4,5-Trichlorophenol	5100UJ	ug/kg
Nitrobenzene	1000U	ug/kg
3-Nitroaniline	REJ	ug/kg
4-Nitroaniline	13000UJ	ug/kg
4-Nitrophenol	13000UJ	ug/kg
Benzyl Alcohol	5200UJ	ug/kg
4-Bromophenyl-phenylet+	1000U	ug/kg
2,4-Dimethylphenol	1000U	ug/kg
4-Methylphenol	1000U	ug/kg
1,4-Dichlorobenzene	1000U	ug/kg
4-Chloroaniline	13000UJ	ug/kg
Phenol	1000U	ug/kg
bis(2-Chloroethyl)Ether	1000U	ug/kg
bis(2-Chloroethoxy)Met+	1000U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	20000 *	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Octyl Phthalate	1000U	ug/kg
Hexachlorobenzene	1000UJ	ug/kg
Anthracene	1000U	ug/kg
1,2,4-Trichlorobenzene	1000U	ug/kg
2,4-Dichlorophenol	1000U	ug/kg
2,4-Dinitrotoluene	2600UJ	ug/kg
Pyrene	630J*	ug/kg
Dimethylphthalate	1000U	ug/kg
Dibenzofuran	1000U	ug/kg
Benzo(ghi)perylene	1000U	ug/kg
Indeno(1,2,3-cd)pyrene	1000U	ug/kg
Benzo(b)fluoranthene	1000U	ug/kg
Fluoranthene	190JN*	ug/kg
Benzo(k)fluoranthene	1000U	ug/kg
Acenaphthylene	1000U	ug/kg
Chrysene	610J*	ug/kg
Retene	1000U	ug/kg
4,6-Dinitro-2-methylph+	13000UJ	ug/kg
1,3-Dichlorobenzene	1000U	ug/kg
2,6-Dinitrotoluene	2600U	ug/kg
N-Nitroso-di-n-Propyla+	1000UJ	ug/kg
4-Chlorophenyl-phenyle+	1000UJ	ug/kg
BIS(2OCHLOROISOPROPYL)+	1000UJ	ug/kg
Surrog: 2-Fluorobiphen+	83	% Recov
Surrog: 2-Fluorophenol	20	% Recov
Surrog: D14-Terphenyl	95	% Recov
PYRENE-D10 (SS)	70	% Recov
Surrog: D5-Nitrobenzene	39	% Recov
Surrog: D5-Phenol	28	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
2-PENTANONE	1700NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	14000NJ*	ug/kg
NAPHTHALENE, 1-METHYL-+	2600NJ*	ug/kg
CHOLEST-5-ENE, 3-BROMO+	470NJ*	ug/kg
2-Hexanone	4400NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	930NJ*	ug/kg
3-HEXANOL	3300NJ*	ug/kg
2-HEXANOL	4200NJ*	ug/kg
URS-12-EN-3-OL, (3.BET+	560NJ*	ug/kg
NAPHTHALENE, 2,3,6-TRI+	1200NJ*	ug/kg

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
2,8-DIMETHYLDIBENZO(B,+	1100NJ*	ug/kg
CYCLOPENTANOL, 1-METHY+	4300NJ*	ug/kg
NAPHTHALENE, 1,4,5-TRI+	1200NJ*	ug/kg
UNKNOWN HYDROCARBON 1	1300NJ*	ug/kg
UNKNOWN HYDROCARBON 2	4500NJ*	ug/kg
UNKNOWN HYDROCARBON 3	10000NJ*	ug/kg
UNKNOWN HYDROCARBON 4	7100NJ*	ug/kg
UNKNOWN COMPOUND 1	280NJ*	ug/kg
UNKNOWN COMPOUND 2	460NJ*	ug/kg
UNKNOWN COMPOUND 3	520NJ*	ug/kg
UNKNOWN COMPOUND 4	530NJ*	ug/kg
UNKNOWN COMPOUND 5	400NJ*	ug/kg
UNKNOWN COMPOUND 6	78NJ*	ug/kg
UNKNOWN COMPOUND 7	1800NJ*	ug/kg
UNKNOWN COMPOUND 8	200NJ*	ug/kg
UNKNOWN COMPOUND 9	420NJ*	ug/kg
UNKNOWN COMPOUND 10	2700NJ*	ug/kg
UNKNOWN COMPOUND 11	4100NJ*	ug/kg
2-HEXANONE, 6-BROMO-	910NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	530NJ*	ug/kg
NONACOSANOL	940NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	1800NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manch er

Sample No: 92 352364 Description: SS01-1 Source: Sediment (General)

Begin Date: 92/08/26 11:10

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	110J*	ug/kg
2,4-Dinitrophenol	6400UJ	ug/kg
Dibenzo(a,h)anthracene	1300U	ug/kg
Benzo(a)anthracene	140J*	ug/kg
4-Chloro-3-Methylphenol	2500U	ug/kg
Benzoic acid	6400UJ	ug/kg
Hexachloroethane	490U	ug/kg
Hexachlorocyclopentadi+	2500UJ	ug/kg
Isophorone	490U	ug/kg
Acenaphthene	34J*	ug/kg
Diethylphthalate	490U	ug/kg
Di-n-Butylphthalate	490U	ug/kg
Phenanthrene	510 *	ug/kg
Butylbenzylphthalate	1300U	ug/kg
N-Nitrosodiphenylamine	74J*	ug/kg
Fluorene	31JN*	ug/kg
Carbazole	2300UJ	ug/kg
Hexachlorobutadiene	1300U	ug/kg
Pentachlorophenol	2500U	ug/kg
2,4,6-Trichlorophenol	1300U	ug/kg
2-Nitroaniline	1300U	ug/kg
2-Nitrophenol	1300U	ug/kg
Naphthalene, 1-Methyl-	140J*	ug/kg
Naphthalene	170J*	ug/kg
2-Methylnaphthalene	160J*	ug/kg
2-Chloronaphthalene	490U	ug/kg
3,3'-Dichlorobenzidine	13000U	ug/kg
2-Methylphenol	490U	ug/kg
1,2-Dichlorobenzene	490U	ug/kg
o-Chlorophenol (2-Chlo+	490U	ug/kg
2,4,5-Trichlorophenol	2500U	ug/kg
Nitrobenzene	490U	ug/kg
3-Nitroaniline	6400UJ	ug/kg
4-Nitroaniline	6400UJ	ug/kg
4-Nitrophenol	6400UJ	ug/kg
Benzyl Alcohol	2500U	ug/kg
4-Bromophenyl-phenylet+	490U	ug/kg
2,4-Dimethylphenol	490U	ug/kg
4-Methylphenol	490U	ug/kg
1,4-Dichlorobenzene	490U	ug/kg
4-Chloroaniline	6400U	ug/kg
Phenol	490U	ug/kg
bis(2-Chloroethyl)Ether	68J*	ug/kg
bis(2-Chloroethoxy)Met+	490U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	490U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Octyl Phthalate	490UJ	ug/kg
Hexachlorobenzene	490U	ug/kg
Anthracene	93J*	ug/kg
1,2,4-Trichlorobenzene	490U	ug/kg
2,4-Dichlorophenol	490U	ug/kg
2,4-Dinitrotoluene	1300U	ug/kg
Pyrene	460J*	ug/kg
Dimethylphthalate	490U	ug/kg
Dibenzofuran	160J*	ug/kg
Benzo(ghi)perylene	240J*	ug/kg
Indeno(1,2,3-cd)pyrene	160JN*	ug/kg
Benzo(b)fluoranthene	430J*	ug/kg
Fluoranthene	430J*	ug/kg
Benzo(k)fluoranthene	130J*	ug/kg
Acenaphthylene	16J*	ug/kg
Chrysene	440J*	ug/kg
Retene	240J*	ug/kg
4,6-Dinitro-2-methylph+	6400UJ	ug/kg
1,3-Dichlorobenzene	490U	ug/kg
2,6-Dinitrotoluene	1300U	ug/kg
N-Nitroso-di-n-Propyla+	490UJ	ug/kg
4-Chlorophenyl-phenyle+	490U	ug/kg
BIS(2OCHLOROISOPROPYL)+	490UJ	ug/kg
Surrog: 2-Fluorobiphen+	91	% Recov
Surrog: 2-Fluorophenol	34	% Recov
Surrog: D14-Terphenyl	107	% Recov
PYRENE-D10 (SS)	116	% Recov
Surrog: D5-Nitrobenzene	47	% Recov
Surrog: D5-Phenol	55	% Recov

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
UNKNOWN COMPOUND 2	250NJ*	ug/kg
UNKNOWN COMPOUND 3	4900NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	2040NJ*	ug/kg

Tent Ident - B/N/Aci	Sediment Result	Units
Decanoic Acid, Hexa-	380NJ*	ug/kg
CARYOPHYLLENE (VAN)	810NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	24000NJ*	ug/kg
9,12,15-OCTADECATRIENO+	5100NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	3600NJ*	ug/kg
1-HEXADECANOL, ACETATE	250NJ*	ug/kg
1-DOCOSANOL	1700NJ*	ug/kg
2-HEXANONE, 6-(ACETYLO+	1800NJ*	ug/kg
SQUALENE	1800NJ*	ug/kg
UNKNOWN COMPOUND 1	550NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: HZR Account: FA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352365 Description: SS01-2 Source: Sediment (General)

Begin Date: 92/08/26 11:10

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	240J*	ug/kg
2,4-Dinitrophenol	12000UJ	ug/kg
Dibenzo(a,h)anthracene	2300U	ug/kg
Benzo(a)anthracene	310NJ*	ug/kg
4-Chloro-3-Methylphenol	4600U	ug/kg
Benzoic acid	12000UJ	ug/kg
Hexachloroethane	900U	ug/kg
Hexachlorocyclopentadi+	4600U	ug/kg
Isophorone	900U	ug/kg
Acenaphthene	72NJ*	ug/kg
Diethylphthalate	900U	ug/kg
Di-n-Butylphthalate	900U	ug/kg
Phenanthrene	1200 *	ug/kg
Butylbenzylphthalate	2300U	ug/kg
N-Nitrosodiphenylamine	12000UJ	ug/kg
Fluorene	58NJ*	ug/kg
Carbazole	4600UJ	ug/kg
Hexachlorobutadiene	2300U	ug/kg
Pentachlorophenol	4600U	ug/kg
2,4,6-Trichlorophenol	2300U	ug/kg
2-Nitroaniline	2300U	ug/kg
2-Nitrophenol	2300U	ug/kg
Naphthalene, 1-Methyl-	370J*	ug/kg
Naphthalene	300J*	ug/kg
2-Methylnaphthalene	360J*	ug/kg
2-Chloronaphthalene	900U	ug/kg
3,3'-Dichlorobenzidine	23000U	ug/kg
2-Methylphenol	900U	ug/kg
1,2-Dichlorobenzene	900U	ug/kg
o-Chlorophenol (2-Chlo+	900U	ug/kg
2,4,5-Trichlorophenol	4500U	ug/kg
Nitrobenzene	900U	ug/kg
3-Nitroaniline	REJ	ug/kg
4-Nitroaniline	12000UJ	ug/kg
4-Nitrophenol	12000UJ	ug/kg
Benzyl Alcohol	4600U	ug/kg
4-Bromophenyl-phenylet+	900U	ug/kg
2,4-Dimethylphenol	900U	ug/kg
4-Methylphenol	900U	ug/kg
1,4-Dichlorobenzene	900U	ug/kg
4-Chloroaniline	12000UJ	ug/kg
Phenol	900U	ug/kg
bis(2-Chloroethyl)Ether	900U	ug/kg
bis(2-Chloroethoxy)Met+	900U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	900U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Octyl Phthalate	900U	ug/kg
Hexachlorobenzene	900U	ug/kg
Anthracene	194J*	ug/kg
1,2,4-Trichlorobenzene	900U	ug/kg
2,4-Dichlorophenol	900U	ug/kg
2,4-Dinitrotoluene	2300U	ug/kg
Pyrene	1300 *	ug/kg
Dimethylphthalate	900U	ug/kg
Dibenzofuran	390J*	ug/kg
Benzo(ghi)perylene	470J*	ug/kg
Indeno(1,2,3-cd)pyrene	260J*	ug/kg
Benzo(b)fluoranthene	610J*	ug/kg
Fluoranthene	1100 *	ug/kg
Benzo(k)fluoranthene	900U	ug/kg
Acenaphthylene	900U	ug/kg
Chrysene	620NJ*	ug/kg
Retene	870NJ*	ug/kg
4,6-Dinitro-2-methylph+	12000UJ	ug/kg
1,3-Dichlorobenzene	900U	ug/kg
2,6-Dinitrotoluene	2300U	ug/kg
N-Nitroso-di-n-Propyla+	900UJ	ug/kg
4-Chlorophenyl-phenyle+	900U	ug/kg
BIS(2OCHLOROISOPROPYL)+	900UJ	ug/kg
Surrog: 2-Fluorobiphen+	107	% Recov
Surrog: 2-Fluorophenol	11	% Recov
Surrog: D14-Terphenyl	110	% Recov
PYRENE-D10 (SS)	114	% Recov
Surrog: D5-Nitrobenzene	52	% Recov
Surrog: D5-Phenol	24	% Recov

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
ETHANE, 1,1,2,2-TETRAC+	1700NJ*	ug/kg
CARYOPHYLLENE (VAN)	530NJ*	ug/kg
2-PENTANONE	2400NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	15000NJ*	ug/kg
9,12,15-OCTADECATRIENO+	2400NJ*	ug/kg
9H-FLUOREN-9-ONE	440NJ*	ug/kg
2-Hexanone	2800NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	690NJ*	ug/kg
2-HEXANOL	2500NJ*	ug/kg
CYCLOPENTANOL, 1-METHY+	2800NJ*	ug/kg

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
HEXANEDIOIC ACID, MONO+	1200NJ*	ug/kg
3,7,11-TRIDECATRIENEN1+	290NJ*	ug/kg
UNKNOWN HYDROCARBON 1	720NJ*	ug/kg
UNKNOWN COMPOUND 1	2200NJ*	ug/kg
UNKNOWN COMPOUND 2	200NJ*	ug/kg
2-HEXANONE, 6-BROMO-	860NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	2700NJ*	ug/kg
2H-PYRAN, 2-(7-HEPTADE+	1400NJ*	ug/kg
1,E-4,Z-8-DODECATRIENE	210NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352366 Description: SS02-1 Source: Sediment (General)

Begin Date: 92/08/26 11:35

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	480U	ug/kg
2,4-Dinitrophenol	6200UJ	ug/kg
Dibenzo(a,h)anthracene	1200U	ug/kg
Benzo(e)anthracene	100J*	ug/kg
4-Chloro-3-Methylphenol	2400UJ	ug/kg
Benzoic acid	6200UJ	ug/kg
Hexachloroethane	480U	ug/kg
Hexachlorocyclopentadi+	2400UJ	ug/kg
Isophorone	480U	ug/kg
Acenaphthene	26JN*	ug/kg
Diethylphthalate	480U	ug/kg
Di-n-Butylphthalate	480U	ug/kg
Phenanthrene	160J*	ug/kg
Butylbenzylphthalate	41NJ*	ug/kg
N-Nitrosodiphenylamine	6200UJ	ug/kg
Fluorene	480U	ug/kg
Carbazole	2400UJ	ug/kg
Hexachlorobutadiene	1200U	ug/kg
Pentachlorophenol	2400UJ	ug/kg
2,4,6-Trichlorophenol	1200UJ	ug/kg
2-Nitroaniline	1200U	ug/kg
2-Nitrophenol	1200UJ	ug/kg
Naphthalene, 1-Methyl-	66JN*	ug/kg
Naphthalene	22JN*	ug/kg
2-Methylnaphthalene	32J*	ug/kg
2-Chloronaphthalene	480U	ug/kg
3,3'-Dichlorobenzidine	12000U	ug/kg
2-Methylphenol	480UJ	ug/kg
1,2-Dichlorobenzene	480U	ug/kg
o-Chlorophenol (2-Chlo+	480UJ	ug/kg
2,4,5-Trichlorophenol	2400UJ	ug/kg
Nitrobenzene	480U	ug/kg
3-Nitroaniline	6200UJ	ug/kg
4-Nitroaniline	6200UJ	ug/kg
4-Nitrophenol	6200UJ	ug/kg
Benzyl Alcohol	2400UJ	ug/kg
4-Bromophenyl-phenylet+	480U	ug/kg
2,4-Dimethylphenol	480UJ	ug/kg
4-Methylphenol	480UJ	ug/kg
1,4-Dichlorobenzene	480U	ug/kg
4-Chloroaniline	6200U	ug/kg
Phenol	480UJ	ug/kg
bis(2-Chloroethyl)Ether	480U	ug/kg
bis(2-Chloroethoxy)Met+	480U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	480U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Octyl Phthalate	480U	ug/kg
Hexachlorobenzene	480UJ	ug/kg
Anthracene	26J*	ug/kg
1,2,4-Trichlorobenzene	480U	ug/kg
2,4-Dichlorophenol	480UJ	ug/kg
2,4-Dinitrotoluene	1200UJ	ug/kg
Pyrene	240J*	ug/kg
Dimethylphthalate	480U	ug/kg
Dibenzofuran	480U	ug/kg
Benzo(ghi)perylene	480U	ug/kg
Indeno(1,2,3-cd)pyrene	480U	ug/kg
Benzo(b)fluoranthene	110JN*	ug/kg
Fluoranthene	110J*	ug/kg
Benzo(k)fluoranthene	480UJ	ug/kg
Acenaphthylene	480U	ug/kg
Chrysene	160NJ*	ug/kg
Retene	480U	ug/kg
4,6-Dinitro-2-methylph+	6200UJ	ug/kg
1,3-Dichlorobenzene	480U	ug/kg
2,6-Dinitrotoluene	1200U	ug/kg
N-Nitroso-di-n-Propyla+	480U	ug/kg
4-Chlorophenyl-phenyle+	480UJ	ug/kg
BIS(2OCHLOROISOPROPYL)+	480U	ug/kg
Surrog: 2-Fluorobiphen+	95	% Recov
Surrog: 2-Fluorophenol	12	% Recov
Surrog: D14-Terphenyl	100	% Recov
PYRENE-D10 (SS)	71	% Recov
Surrog: D5-Nitrobenzene	46	% Recov
Surrog: D5-Phenol	17	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
.GAMMA.-SITOSTEROL	1600NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	10000NJ*	ug/kg
3-PENTEN-2-ONE, 4-METH+	11000NJ*	ug/kg
CHOLESTANE (VAN)	560NJ*	ug/kg
1-HEXACOSANOL	17000NJ*	ug/kg
PENTATRIACONTANE	5210NJ*	ug/kg
UNKNOWN HYDROCARBON 1	4900NJ*	ug/kg
PENTANOIC ACID, 2-HYDR+	1400NJ*	ug/kg
TRICYCLO[4.3.0.07,9]NO+	1400NJ*	ug/kg
2-OCTADECENAL	1600NJ*	ug/kg

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
1-HENEICOSYL FORMATE	1200NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352367 Description: SS02-2 Source: Sediment (General)

Begin Date: 92/08/26 11:35

B/N/Acid Scan	Sediment Result	Units
Benzo(e)pyrene	120U	ug/kg
2,4-Dinitrophenol	REJ	ug/kg
Dibenzo(e,h)enthrecene	310U	ug/kg
Benzo(a)anthracene	120U	ug/kg
4-Chloro-3-Methylphenol	REJ	ug/kg
Benzoic acid	REJ	ug/kg
Hexachloroethane	120U	ug/kg
Hexachlorocyclopentadi+	630U	ug/kg
Isophorone	BNJ*	ug/kg
Acenaphthene	120U	ug/kg
Diethylphthalate	120U	ug/kg
Di-n-Butylphthalate	120U	ug/kg
Phenanthrene	9NJ*	ug/kg
Butylbenzylphthalate	120U	ug/kg
N-Nitrosodiphenylamine	17J*	ug/kg
Fluorene	120U	ug/kg
Carbazole	630UJ	ug/kg
Hexachlorobutadiene	310U	ug/kg
Pentachlorophenol	REJ	ug/kg
2,4,6-Trichlorophenol	REJ	ug/kg
2-Nitroaniline	310U	ug/kg
2-Nitrophenol	REJ	ug/kg
Naphthalene, 1-Methyl-	120U	ug/kg
Naphthalene	120U	ug/kg
2-Methylnaphthalene	120U	ug/kg
2-Chloronaphthalene	120U	ug/kg
3,3'-Dichlorobenzidine	3100U	ug/kg
2-Methylphenol	REJ	ug/kg
1,2-Dichlorobenzene	120U	ug/kg
o-Chlorophenol (2-Chlo+	REJ	ug/kg
2,4,5-Trichlorophenol	REJ	ug/kg
Nitrobenzene	120U	ug/kg
3-Nitroaniline	REJ	ug/kg
4-Nitroaniline	1600U	ug/kg
4-Nitrophenol	REJ	ug/kg
Benzyl Alcohol	630U	ug/kg
4-Bromophenyl-phenylet+	120U	ug/kg
2,4-Dimethylphenol	REJ	ug/kg
4-Methylphenol	REJ	ug/kg
1,4-Dichlorobenzene	120U	ug/kg
4-Chloroaniline	1600UJ	ug/kg
Phenol	REJ	ug/kg
bis(2-Chloroethyl)Ether	120U	ug/kg
bis(2-Chloroethoxy)Met+	120U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	120U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Octyl Phthalate	120UJ	ug/kg
Hexachlorobenzene	120UJ	ug/kg
Anthracene	120U	ug/kg
1,2,4-Trichlorobenzene	120U	ug/kg
2,4-Dichlorophenol	REJ	ug/kg
2,4-Dinitrotoluene	310U	ug/kg
Pyrene	9NJ*	ug/kg
Dimethylphthalate	120U	ug/kg
Dibenzofuran	120U	ug/kg
Benzo(ghi)perylene	120U	ug/kg
Indeno(1,2,3-cd)pyrene	120U	ug/kg
Benzo(b)fluoranthene	120U	ug/kg
Fluoranthene	9J*	ug/kg
Benzo(k)fluoranthene	120U	ug/kg
Acenaphthylene	120U	ug/kg
Chrysene	120U	ug/kg
Retene	120U	ug/kg
4,6-Dinitro-2-methylph+	REJ	ug/kg
1,3-Dichlorobenzene	120U	ug/kg
2,6-Dinitrotoluene	310U	ug/kg
N-Nitroso-di-n-Propyla+	120UJ	ug/kg
4-Chlorophenyl-phenyle+	120U	ug/kg
BIS(2OCHLOROISOPROPYL)+	120UJ	ug/kg
Surrog: 2-Fluorobiphen+	82	% Recov
Surrog: 2-Fluorophenol	33	% Recov
Surrog: D14-Terphenyl	94	% Recov
PYRENE-D10 (SS)	92	% Recov
Surrog: D5-Nitrobenzene	77	% Recov
Surrog: D5-Phenol	0	% Recov

Tent Ident - B/N/Acid	Sediment Result	Units
4-HYDROXY-4-METHYLPENT+	27000NJ*	ug/kg
PHENOL, 2-FLUORO-	510NJ*	ug/kg
2-Hexanone	1100NJ*	ug/kg
2-HEXANOL	1100NJ*	ug/kg
1-DOCOSANOL	480NJ*	ug/kg
2-PROPANONE, 1-CYCLOHE+	430NJ*	ug/kg
3-PENTEN-2-ONE, 4-BUTO+	160NJ*	ug/kg
2-HEPTANOL, ACETATE	4200NJ*	ug/kg
UNKNOWN HYDROCARBON 1	310NJ*	ug/kg
UNKNOWN HYDROCARBON 2	260NJ*	ug/kg

Tent Ident - B/N/Acid *** Continued ***	Sediment Result	Units
UNKNOWN HYDROCARBON 3	1600NJ*	ug/kg
UNKNOWN HYDROCARBON 4	470NJ*	ug/kg
UNKNOWN HYDROCARBON 5	820NJ*	ug/kg
UNKNOWN HYDROCARBON 6	380NJ*	ug/kg
UNKNOWN HYDROCARBON 7	100NJ*	ug/kg
UNKNOWN COMPOUND 1	560NJ*	ug/kg
UNKNOWN COMPOUND 2	5800NJ*	ug/kg
UNKNOWN COMPOUND 3	770NJ*	ug/kg
UNKNOWN COMPOUND 4	68NJ*	ug/kg
UNKNOWN COMPOUND 5	230NJ*	ug/kg
UNKNOWN COMPOUND 6	160NJ*	ug/kg
UNKNOWN COMPOUND 7	68NJ*	ug/kg
UNKNOWN COMPOUND 8	230NJ*	ug/kg
UNKNOWN COMPOUND 9	270NJ*	ug/kg
UNKNOWN COMPOUND 10	210NJ*	ug/kg
UNKNOWN COMPOUND 11	300NJ*	ug/kg
UNKNOWN COMPOUND 12	250NJ*	ug/kg
UNKNOWN COMPOUND 13	800NJ*	ug/kg
UNKNOWN COMPOUND 14	570NJ*	ug/kg
UNKNOWN COMPOUND-15	170NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	650NJ*	ug/kg
1,2-BENZENEDICARBOXYLI+	75NJ*	ug/kg
HEXANE, 1-PROPOXY-	790NJ*	ug/kg
2-NONANONE, 9-[(TETRAH+	830NJ*	ug/kg
1,8-NONANEDIOL, 8-METH+	730NJ*	ug/kg
2-CYCLOHEXEN-1-ONE, 3,+	4120NJ*	ug/kg
CYCLOPENTENE, 1,3-DIME+	1300NJ*	ug/kg
2,6-DIMETHYL-6-NITRO-2+	460NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352368 Description: SS03-1 Source: Sediment (General)

Begin Date: 92/08/26 11:45

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	440NJ*	ug/kg
2,4-Dinitrophenol	REJ	ug/kg
Dibenzo(a,h)anthracene	2100U	ug/kg
Benzo(a)anthracene	3000 *	ug/kg
4-Chloro-3-Methylphenol	REJ	ug/kg
Benzoic acid	REJ	ug/kg
Hexachloroethane	830U	ug/kg
Hexachlorocyclopentadi+	4300U	ug/kg
Isophorone	830U	ug/kg
Acenaphthene	2700NJ*	ug/kg
Diethylphthalate	830U	ug/kg
Di-n-Butylphthalate	830U	ug/kg
Phenanthrene	14000 *	ug/kg
Butylbenzylphthalate	2100U	ug/kg
N-Nitrosodiphenylamine	11000UJ	ug/kg
Fluorene	3000 *	ug/kg
Carbazole	4300UJ	ug/kg
Hexachlorobutadiene	2100U	ug/kg
Pentachlorophenol	REJ	ug/kg
2,4,6-Trichlorophenol	REJ	ug/kg
2-Nitroaniline	2100U	ug/kg
2-Nitrophenol	REJ	ug/kg
Naphthalene, 1-Methyl-	26000 *	ug/kg
Naphthalene	2700NJ*	ug/kg
2-Methylnephthalene	15000 *	ug/kg
2-Chloronaphthalene	830U	ug/kg
3,3'-Dichlorobenzidine	21000U	ug/kg
2-Methylphenol	REJ	ug/kg
1,2-Dichlorobenzene	830U	ug/kg
o-Chlorophenol (2-Chlo+	REJ	ug/kg
2,4,5-Trichlorophenol	REJ	ug/kg
Nitrobenzene	830U	ug/kg
3-Nitroaniline	REJ	ug/kg
4-Nitroaniline	11000U	ug/kg
4-Nitrophenol	REJ	ug/kg
Benzyl Alcohol	4300U	ug/kg
4-Bromophenyl-phenylet+	830U	ug/kg
2,4-Dimethylphenol	REJ	ug/kg
4-Methylphenol	REJ	ug/kg
1,4-Dichlorobenzene	830U	ug/kg
4-Chloroaniline	11000UJ	ug/kg
Phenol	REJ	ug/kg
bis(2-Chloroethyl)Ether	830U	ug/kg
bis(2-Chloroethoxy)Met+	830U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	830U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Octyl Phthalate	830U	ug/kg
Hexachlorobenzene	830UJ	ug/kg
Anthracene	120NJ*	ug/kg
1,2,4-Trichlorobenzene	830U	ug/kg
2,4-Dichlorophenol	REJ	ug/kg
2,4-Dinitrotoluene	2100U	ug/kg
Pyrene	7000 *	ug/kg
Dimethylphthalate	830U	ug/kg
Dibenzofuran	830U	ug/kg
Benzo(ghi)perylene	830U	ug/kg
Indeno(1,2,3-cd)pyrene	190NJ*	ug/kg
Benzo(b)fluoranthene	1000NJ*	ug/kg
Fluoranthene	5700NJ*	ug/kg
Benzo(k)fluoranthene	830U	ug/kg
Acenaphthylene	30NJ*	ug/kg
Chrysene	3300 *	ug/kg
Retene	830U	ug/kg
4,6-Dinitro-2-methylph+	REJ	ug/kg
1,3-Dichlorobenzene	830U	ug/kg
2,6-Dinitrotoluene	2100U	ug/kg
N-Nitroso-di-n-Propyla+	830UJ	ug/kg
4-Chlorophenyl-phenyle+	830U	ug/kg
BIS(2OCHLOROISOPROPYL)+	830UJ	ug/kg
Surrog: 2-Fluorobiphen+	138	% Recov
Surrog: 2-Fluorophenol	41	% Recov
Surrog: D14-Terphenyl	91	% Recov
PYRENE-D10 (SS)	84	% Recov
Surrog: D5-Nitrobenzene	101	% Recov
Surrog: D5-Phenol	0	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
4-HYDROXY-4-METHYLPENT+	19000NJ*	ug/kg
PHENOL, 2-FLUORO-	520NJ*	ug/kg
NAPHTHALENE, 1-METHYL-+	14000NJ*	ug/kg
GLYCOCYANIDINE	280NJ*	ug/kg
NAPHTHALENE, 1,5-DIMET+	150000NJ*	ug/kg
NAPHTHALENE, 1,3-DIMET+	170000NJ*	ug/kg
2-Hexanone	2300NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	990NJ*	ug/kg
3-HEXANOL	2900NJ*	ug/kg
2-HEXANOL	3600NJ*	ug/kg

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
1,1'-BIPHENYL, 4-METHY+	130000NJ*	ug/kg
NAPHTHALENE, 2,3,6-TRI+	66000NJ*	ug/kg
2-CYCLOHEXEN-1-ONE, 3,+	470NJ*	ug/kg
7-OXABICYCLO[4.1.0]HEP+	250NJ*	ug/kg
2,8-DIMETHYLDIBENZO(B,+	110000NJ*	ug/kg
9H-FLUORENE, 2-METHYL-	14000NJ*	ug/kg
CYCLOPENTANOL, 1-METHY+	3500NJ*	ug/kg
1,1'-BIPHENYL, 2-ETHYL-	30000NJ*	ug/kg
NAPHTHALENE, 2-(1-METH+	90000NJ*	ug/kg
NAPHTHALENE, 1,4,5-TRI+	70000NJ*	ug/kg
NAPHTHALENE, 1,4,6-TRI+	50000NJ*	ug/kg
NAPHTHALENE, 1,6,7-TRI+	110000NJ*	ug/kg
NAPHTHALENE, 1-(2-PROP+	57000NJ*	ug/kg
2-HEXANONE, 6-(ACETYLO+	1400NJ*	ug/kg
UNKNOWN HYDROCARBON 1	44000NJ*	ug/kg
UNKNOWN HYDROCARBON 2	89000NJ*	ug/kg
UNKNOWN HYDROCARBON 3	55000NJ*	ug/kg
UNKNOWN COMPOUND 1	2800NJ*	ug/kg
UNKNOWN COMPOUND 2	660NJ*	ug/kg
UNKNOWN COMPOUND 3	630NJ*	ug/kg
UNKNOWN COMPOUND 4	1400NJ*	ug/kg
UNKNOWN COMPOUND 5	770NJ*	ug/kg
UNKNOWN COMPOUND 6	850NJ*	ug/kg
UNKNOWN COMPOUND 7	1100NJ*	ug/kg
UNKNOWN COMPOUND 8	5600NJ*	ug/kg
UNKNOWN COMPOUND 9	12000NJ*	ug/kg
UNKNOWN COMPOUND 10	2500NJ*	ug/kg
UNKNOWN COMPOUND 11	430NJ*	ug/kg
UNKNOWN COMPOUND 12	1500NJ*	ug/kg
UNKNOWN COMPOUND 13	850NJ*	ug/kg
UNKNOWN COMPOUND 14	400NJ*	ug/kg
UNKNOWN COMPOUND-15	6700NJ*	ug/kg
BENZENE, 1,1'-[(METHYL+	14000NJ*	ug/kg
DIBENZOTHIOPHENE, 3-ME+	21000NJ*	ug/kg
NAPHTHALENE, 1-(1,1-DI+	320000NJ*	ug/kg
1-PHENANTHRENEMETHANOL+	900NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	2500NJ*	ug/kg
METHYLDIBENZOTHIOPHENE	15000NJ*	ug/kg
1-HEXADECANOL	2900NJ*	ug/kg
1-HEXADECANOL	2300NJ*	ug/kg
HEPTADECANE, 2,6-DIMET+	1900NJ*	ug/kg
IRON, TRICARBONYL[N-PH+	1500NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352369 Description: SS03-2 Source: Sediment (General)

Begin Date: 92/08/26 11:45

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	740J*	ug/kg
2,4-Dinitrophenol	10000UJ	ug/kg
Dibenzo(a,h)anthracene	2000U	ug/kg
Benzo(a)anthracene	2200 *	ug/kg
4-Chloro-3-Methylphenol	4100U	ug/kg
Benzoic acid	10000UJ	ug/kg
Hexachloroethane	790U	ug/kg
Hexachlorocyclopentadi+	4100UJ	ug/kg
Isophorone	790U	ug/kg
Acenaphthene	8700JN*	ug/kg
Diethylphthalate	790U	ug/kg
Di-n-Butylphthalate	790U	ug/kg
Phenanthrene	31000 *	ug/kg
Butylbenzylphthalate	2000U	ug/kg
N-Nitrosodiphenylamine	10000UJ	ug/kg
Fluorene	11000 *	ug/kg
Carbazole	4100UJ	ug/kg
Hexachlorobutadiene	2000UJ	ug/kg
Pentachlorophenol	4100U	ug/kg
2,4,6-Trichlorophenol	2000U	ug/kg
2-Nitroaniline	2000U	ug/kg
2-Nitrophenol	2000U	ug/kg
Naphthalene, 1-Methyl-	55000 *	ug/kg
Naphthalene	6000 *	ug/kg
2-Methylnaphthalene	46000 *	ug/kg
2-Chloronaphthalene	790U	ug/kg
3,3'-Dichlorobenzidine	20000U	ug/kg
2-Methylphenol	790U	ug/kg
1,2-Dichlorobenzene	790U	ug/kg
o-Chlorophenol (2-Chlo+	790U	ug/kg
2,4,5-Trichlorophenol	4000UJ	ug/kg
Nitrobenzene	790U	ug/kg
3-Nitroaniline	10000UJ	ug/kg
4-Nitroaniline	10000U	ug/kg
4-Nitrophenol	10000U	ug/kg
Benzyl Alcohol	4100UJ	ug/kg
4-Bromophenyl-phenylet+	790U	ug/kg
2,4-Dimethylphenol	790U	ug/kg
4-Methylphenol	790U	ug/kg
1,4-Dichlorobenzene	790U	ug/kg
4-Chloroaniline	10000U	ug/kg
Phenol	790U	ug/kg
bis(2-Chloroethyl)Ether	790U	ug/kg
bis(2-Chloroethoxy)Met+	790U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	6100J*	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Octyl Phthalate	790UJ	ug/kg
Hexachlorobenzene	790UJ	ug/kg
Anthracene	2600J*	ug/kg
1,2,4-Trichlorobenzene	790U	ug/kg
2,4-Dichlorophenol	790U	ug/kg
2,4-Dinitrotoluene	2000U	ug/kg
Pyrene	5900 *	ug/kg
Dimethylphthalate	790U	ug/kg
Dibenzofuran	790U	ug/kg
Benzo(ghi)perylene	790U	ug/kg
Indeno(1,2,3-cd)pyrene	790U	ug/kg
Benzo(b)fluoranthene	470J*	ug/kg
Fluoranthene	1700 *	ug/kg
Benzo(k)fluoranthene	790UJ	ug/kg
Acenaphthylene	790U	ug/kg
Chrysene	2500 *	ug/kg
Retene	790U	ug/kg
4,6-Dinitro-2-methylph+	10000UJ	ug/kg
1,3-Dichlorobenzene	790U	ug/kg
2,6-Dinitrotoluene	2000U	ug/kg
N-Nitroso-di-n-Propyla+	790U	ug/kg
4-Chlorophenyl-phenyle+	790UJ	ug/kg
BIS(2OCHLOROISOPROPYL)+	790U	ug/kg
Surrog: 2-Fluorobiphen+	125	% Recov
Surrog: 2-Fluorophenol	10	% Recov
Surrog: D14-Terphenyl	84	% Recov
PYRENE-D10 (SS)	75	% Recov
Surrog: D5-Nitrobenzene	70	% Recov
Surrog: D5-Phenol	28	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
4-HYDROXY-4-METHYLPENT+	33000NJ*	ug/kg
2,5-HEPTADIEN-4-ONE, 2+	290NJ*	ug/kg
NAPHTHALENE, 1,5-DIMET+	22000NJ*	ug/kg
NAPHTHALENE, 1,3-DIMET+	38000NJ*	ug/kg
NAPHTHALENE, 2,7-DIMET+	62000NJ*	ug/kg
NAPHTHALENE, 2,3,6-TRI+	16000NJ*	ug/kg
1,1'-BIPHENYL, 2-ETHYL-	18000NJ*	ug/kg
NAPHTHALENE, 1,4,5-TRI+	30000NJ*	ug/kg
NAPHTHALENE, 1,4,6-TRI+	19000NJ*	ug/kg
9H-FLUORENE, 9-METHYL-	14000NJ*	ug/kg

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
NAPHTHALENE, 1,3,6-TRI+	17000NJ*	ug/kg
2-PENTANONE, 3-(PHENYL+	1300NJ*	ug/kg
UNKNOWN HYDROCARBON 1	32000NJ*	ug/kg
UNKNOWN HYDROCARBON 9	51000NJ*	ug/kg
UNKNOWN COMPOUND 1	23000NJ*	ug/kg
UNKNOWN COMPOUND 2	3400NJ*	ug/kg
UNKNOWN COMPOUND 3	36000NJ*	ug/kg
UNKNOWN COMPOUND 4	42000NJ*	ug/kg
UNKNOWN COMPOUND 5	3200NJ*	ug/kg
UNKNOWN COMPOUND 6	3500NJ*	ug/kg
UNKNOWN COMPOUND 7	9000NJ*	ug/kg
UNKNOWN COMPOUND 8	6600NJ*	ug/kg
UNKNOWN COMPOUND 10	15000NJ*	ug/kg
UNKNOWN COMPOUND 11	410NJ*	ug/kg
UNKNOWN COMPOUND 12	280NJ*	ug/kg
UNKNOWN COMPOUND 13	730NJ*	ug/kg
UNKNOWN COMPOUND 14	640NJ*	ug/kg
UNKNOWN COMPOUND-15	580NJ*	ug/kg
UNKNOWN COMPOUND-16	1300NJ*	ug/kg
UNKNOWN COMPOUND-17	950NJ*	ug/kg
UNKNOWN COMPOUND-18	1200NJ*	ug/kg
UNKNOWN COMPOUND-19	680NJ*	ug/kg
UNKNOWN COMPOUND-20	1400NJ*	ug/kg
UNKNOWN COMPOUND	2500NJ*	ug/kg
UNKNOWN COMPOUND	850NJ*	ug/kg
UNKNOWN COMPOUND	590NJ*	ug/kg
HEPTADECANE, 2,6-DIMET+	1900NJ*	ug/kg
NAPHTHALENE, 2-METHYL-+	11000NJ*	ug/kg
2,6-DIMETHYL-6-NITRO-2+	780NJ*	ug/kg
IRON, TRICARBONYL[N-PH+	1800NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352370 Description: SS04-1 Source: Sediment (General)

Begin Date: 92/08/26 12:00

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	680U	ug/kg
2,4-Dinitrophenol	8900UJ	ug/kg
Dibenzo(a,h)anthracene	1700U	ug/kg
Benzo(a)anthracene	680U	ug/kg
4-Chloro-3-Methylphenol	3500U	ug/kg
Benzoic acid	8900UJ	ug/kg
Hexachloroethane	680U	ug/kg
Hexachlorocyclopentadi+	3500UJ	ug/kg
Isophorone	13J*	ug/kg
Acenaphthene	680U	ug/kg
Diethylphthalate	680U	ug/kg
Di-n-Butylphthalate	680U	ug/kg
Phenanthrene	220J*	ug/kg
Butylbenzylphthalate	1700U	ug/kg
N-Nitrosodiphenylamine	27J*	ug/kg
Fluorene	680U	ug/kg
Carbazole	3500UJ	ug/kg
Hexachlorobutadiene	1700U	ug/kg
Pentachlorophenol	3500U	ug/kg
2,4,6-Trichlorophenol	1700U	ug/kg
2-Nitroaniline	1700U	ug/kg
2-Nitrophenol	1700U	ug/kg
Naphthalene, 1-Methyl-	150J*	ug/kg
Naphthalene	93J*	ug/kg
2-Methylnaphthalene	150J*	ug/kg
2-Chloronaphthalene	680U	ug/kg
3,3'-Dichlorobenzidine	17000U	ug/kg
2-Methylphenol	680U	ug/kg
1,2-Dichlorobenzene	680U	ug/kg
o-Chlorophenol (2-Chlo+	680U	ug/kg
2,4,5-Trichlorophenol	3500U	ug/kg
Nitrobenzene	680U	ug/kg
3-Nitroaniline	8900UJ	ug/kg
4-Nitroaniline	8900U	ug/kg
4-Nitrophenol	8900U	ug/kg
Benzyl Alcohol	3500U	ug/kg
4-Bromophenyl-phenylat+	680UJ	ug/kg
2,4-Dimethylphenol	680U	ug/kg
4-Methylphenol	680U	ug/kg
1,4-Dichlorobenzene	680U	ug/kg
4-Chloroaniline	8900U	ug/kg
Phenol	680U	ug/kg
bis(2-Chloroethyl)Ether	680U	ug/kg
bis(2-Chloroethoxy)Met+	680U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	680U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Octyl Phthalate	680U	ug/kg
Hexachlorobenzene	680UJ	ug/kg
Anthracene	38J*	ug/kg
1,2,4-Trichlorobenzene	680U	ug/kg
2,4-Dichlorophenol	680U	ug/kg
2,4-Dinitrotoluene	1700U	ug/kg
Pyrene	110J*	ug/kg
Dimethylphthalate	680U	ug/kg
Dibenzofuran	62J*	ug/kg
Benzo(ghi)perylene	680U	ug/kg
Indeno(1,2,3-cd)pyrene	680U	ug/kg
Benzo(b)fluoranthene	680U	ug/kg
Fluoranthene	120J*	ug/kg
Benzo(k)fluoranthene	680UJ	ug/kg
Acenaphthylene	680U	ug/kg
Chrysene	680U	ug/kg
Retene	140J*	ug/kg
4,6-Dinitro-2-methylph+	8900UJ	ug/kg
1,3-Dichlorobenzene	680U	ug/kg
2,6-Dinitrotoluene	1700U	ug/kg
N-Nitroso-di-n-Propyla+	680UJ	ug/kg
4-Chlorophenyl-phenyle+	680U	ug/kg
BIS(2OCHLOROISOPROPYL)+	680UJ	ug/kg
Surrog: 2-Fluorobiphen+	102	% Recov
Surrog: 2-Fluorophenol	29	% Recov
Surrog: D14-Terphenyl	107	% Recov
PYRENE-D10 (SS)	58	% Recov
Surrog: D5-Nitrobenzene	73	% Recov
Surrog: D5-Phenol	28	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
ETHANE, 1,1,2,2-TETRAC+	1600NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	9300NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	850NJ*	ug/kg
2-CYCLOHEXEN-1-ONE, 3,+	270NJ*	ug/kg
1,3-DIOXOLANE, 2,2,4-T+	340NJ*	ug/kg
UNKNOWN HYDROCARBON 1	1080NJ*	ug/kg
UNKNOWN COMPOUND 1	1300NJ*	ug/kg
UNKNOWN COMPOUND 2	440NJ*	ug/kg
UNKNOWN COMPOUND 3	170NJ*	ug/kg
UNKNOWN COMPOUND 4	500NJ*	ug/kg

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
2-HEXANONE, 6-BROMO- -	1900NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	620NJ*	ug/kg
BUTANE, 2,2-DICHLORO-3+	250NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	2600NJ*	ug/kg
2-BUTANONE, 3-METHOXY-+	140NJ*	ug/kg
1,E-4,Z-8-DODECATRIENE	270NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352371 Description: SS04-2 Source: Sediment (General)

Begin Date: 92/08/26 12:00

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	16NJ*	ug/kg
2,4-Dinitrophenol	3500UJ	ug/kg
Dibenzo(a,h)anthracene	670UJ	ug/kg
Benzo(a)anthracene	28NJ*	ug/kg
4-Chloro-3-Methylphenol	1400UJ	ug/kg
Benzoic acid	3500UJ	ug/kg
Hexachloroethane	260UJ	ug/kg
Hexachlorocyclopentadi+	1400UJ	ug/kg
Isophorone	47J*	ug/kg
Acenaphthene	260UJ	ug/kg
Diethylphthalate	260UJ	ug/kg
Di-n-Butylphthalate	260U	ug/kg
Phenanthrene	27J*	ug/kg
Butylbenzylphthalate	670UJ	ug/kg
N-Nitrosodiphenylamine	3500UJ	ug/kg
Fluorene	2J*	ug/kg
Carbazole	1400UJ	ug/kg
Hexachlorobutadiene	670UJ	ug/kg
Pentachlorophenol	1400UJ	ug/kg
2,4,6-Trichlorophenol	670UJ	ug/kg
2-Nitroaniline	670UJ	ug/kg
2-Nitrophenol	670UJ	ug/kg
Naphthalene, 1-Methyl-	14NJ*	ug/kg
Naphthalene	11J*	ug/kg
2-Methylnaphthalene	16J*	ug/kg
2-Chloronaphthalene	260UJ	ug/kg
3,3'-Dichlorobenzidine	6700UJ	ug/kg
2-Methylphenol	260UJ	ug/kg
1,2-Dichlorobenzene	260UJ	ug/kg
o-Chlorophenol (2-Chlo+	260UJ	ug/kg
2,4,5-Trichlorophenol	1300UJ	ug/kg
Nitrobenzene	260UJ	ug/kg
3-Nitroaniline	3500UJ	ug/kg
4-Nitroaniline	3500UJ	ug/kg
4-Nitrophenol	3500UJ	ug/kg
Benzyl Alcohol	1400UJ	ug/kg
4-Bromophenyl-phenylet+	260UJ	ug/kg
2,4-Dimethylphenol	260UJ	ug/kg
4-Methylphenol	260UJ	ug/kg
1,4-Dichlorobenzene	260UJ	ug/kg
4-Chloroaniline	3500UJ	ug/kg
Phenol	260UJ	ug/kg
bis(2-Chloroethyl)Ether	260UJ	ug/kg
bis(2-Chloroethoxy)Met+	260UJ	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	1300U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Octyl Phthalate	260U	ug/kg
Hexachlorobenzene	260UJ	ug/kg
Anthracene	3J*	ug/kg
1,2,4-Trichlorobenzene	260UJ	ug/kg
2,4-Dichlorophenol	260UJ	ug/kg
2,6-Dinitrotoluene	670UJ	ug/kg
Pyrene	39J*	ug/kg
Dimethylphthalate	260UJ	ug/kg
Dibenzofuran	5J*	ug/kg
Benzo(ghi)perylene	260UJ	ug/kg
Indeno(1,2,3-cd)pyrene	16NJ*	ug/kg
Benzo(b)fluoranthene	43J*	ug/kg
Fluoranthene	50J*	ug/kg
Benzo(k)fluoranthene	20NJ*	ug/kg
Acenaphthylene	260UJ	ug/kg
Chrysene	32J*	ug/kg
Retene	37NJ*	ug/kg
4,6-Dinitro-2-methylph+	3500UJ	ug/kg
1,3-Dichlorobenzene	260UJ	ug/kg
2,6-Dinitrotoluene	670UJ	ug/kg
N-Nitroso-di-n-Propyla+	260UJ	ug/kg
4-Chlorophenyl-phenyle+	260UJ	ug/kg
BIS(2OCHLOROISOPROPYL)+	260UJ	ug/kg
Surrog: 2-Fluorobiphen+	24	% Recov
Surrog: 2-Fluorophenol	24	% Recov
Surrog: D14-Terphenyl	28	% Recov
PYRENE-D10 (SS)	21	% Recov
Surrog: D5-Nitrobenzene	18	% Recov
Surrog: D5-Phenol	17	% Recov

B/N/Acid Scan Matrix Spike #1	Sediment Result	Units
Benzo(a)pyrene	0.3	% Recov
2,4-Dinitrophenol	0.002UJ	% Recov
Dibenzo(a,h)anthracene	0.0003U	% Recov
Benzo(a)anthracene	0.5	% Recov
4-Chloro-3-Methylphenol	25J	% Recov
Benzoic acid	0.002UJ	% Recov
Hexachloroethane	0.0001U	% Recov
Hexachlorocyclopentadi+	0.0007UJ	% Recov
Isophorone	40	% Recov
Acenaphthene	0.0001U	% Recov

B/N/Acid Scan *** Continued *** Matrix Spike #1	Sediment Result	Units
Diethylphthalate	0.6	% Recov
Di-n-Butylphthalate	0.5	% Recov
Phenanthrene	0.2U	% Recov
Butylbenzylphthalate	0.7J	% Recov
N-Nitrosodiphenylamine	0.8J	% Recov
Fluorene	0.0001U	% Recov
Carbazole	0.0007UJ	% Recov
Hexachlorobutadiene	0.0003U	% Recov
Pentachlorophenol	0.0007U	% Recov
2,4,6-Trichlorophenol	0.0003U	% Recov
2-Nitroaniline	25	% Recov
2-Nitrophenol	0.0003U	% Recov
Naphthalene, 1-Methyl-	0.0001U	% Recov
Naphthalene	0.0001U	% Recov
2-Methylnaphthalene	0.0001U	% Recov
2-Chloronaphthalene	0.0001U	% Recov
3,3'-Dichlorobenzidine	0.003U	% Recov
2-Methylphenol	24	% Recov
1,2-Dichlorobenzene	0.0001U	% Recov
o-Chlorophenol (2-Chlo+	20	% Recov
2,4,5-Trichlorophenol	0.0007U	% Recov
Nitrobenzene	0.0001U	% Recov
3-Nitroaniline	0.002UJ	% Recov
4-Nitroaniline	0.002U	% Recov
4-Nitrophenol	0.002U	% Recov
Benzyl Alcohol	32	% Recov
4-Bromophenyl-phenylet+	0.0001U	% Recov
2,4-Dimethylphenol	16	% Recov
4-Methylphenol	20	% Recov
1,4-Dichlorobenzene	0.0001U	% Recov
4-Chloroaniline	0.002U	% Recov
Phenol	18	% Recov
bis(2-Chloroethyl)Ether	0.0001U	% Recov
bis(2-Chloroethoxy)Met+	0.0001U	% Recov
BIS(2-ETHYLHEXYL) PHTH+	0.6J	% Recov
Di-n-Octyl Phthalate	0.6J	% Recov
Hexachlorobenzene	0.0001U	% Recov
Anthracene	0.2	% Recov
1,2,4-Trichlorobenzene	0.0001U	% Recov
2,4-Dichlorophenol	10	% Recov
2,4-Dinitrotoluene	0.0003U	% Recov
Pyrene	0.3	% Recov
Dimethylphthalate	0.5	% Recov
Dibenzofuran	0.0001U	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352371 Description: SS04-2 Source: Sediment (General)

Begin Date: 92/08/26 12:00

B/N/Acid Scan *** Continued *** Matrix Spike #1	Sediment Result	Units
Benzo(ghi)perylene	0.0001U	% Recov
Indeno(1,2,3-cd)pyrene	0.0001U	% Recov
Benzo(b)fluoranthene	0.3	% Recov
Fluoranthene	0.3	% Recov
Benzo(k)fluoranthene	0.6	% Recov
Acenaphthylene	0.2	% Recov
Chrysene	0.6	% Recov
Retene	0.3	% Recov
4,6-Dinitro-2-methylph+	0.002UJ	% Recov
1,3-Dichlorobenzene	0.0001U	% Recov
2,6-Dinitrotoluene	0.0003U	% Recov
N-Nitroso-di-n-Propyla+	27	% Recov
4-Chlorophenyl-phenyle+	0.0001U	% Recov
BIS(2OCHLOROISOPROPYL)+	0.0001U	% Recov
Surrog: 2-Fluorobiphen+	0	% Recov
Surrog: 2-Fluorophenol	22	% Recov
Surrog: D14-Terphenyl	14	% Recov
PYRENE-D10 (SS)	0	% Recov
Surrog: D5-Nitrobenzene	0	% Recov
Surrog: D5-Phenol	36	% Recov

B/N/Acid Scan Matrix Spike #2	Sediment Result	Units
Benzo(a)pyrene	0.2	% Recov
2,4-Dinitrophenol	0.002UJ	% Recov
Dibenzo(a,h)anthracene	0.0003U	% Recov
Benzo(a)anthracene	0.3	% Recov
4-Chloro-3-Methylphenol	30J	% Recov
Benzoic acid	0.002UJ	% Recov
Hexachloroethane	0.0001U	% Recov
Hexachlorocyclopentadi+	0.0007UJ	% Recov
Isophorone	31	% Recov
Acenaphthene	0.0001U	% Recov
Diethylphthalate	0.5	% Recov
Di-n-Butylphthalate	0.4	% Recov
Phenanthrene	0.1	% Recov
Butylbenzylphthalate	0.5J	% Recov
N-Nitrosodiphenylamine	0.9J	% Recov
Fluorene	0.0001U	% Recov
Carbazole	0.0007UJ	% Recov
Hexachlorobutadiene	0.0003U	% Recov
Pentachlorophenol	0.0007U	% Recov

B/N/Acid Scan *** Continued *** Matrix Spike #2	Sediment Result	Units
2,4,6-Trichlorophenol	0.0003U	% Recov
2-Nitroaniline	36	% Recov
2-Nitrophenol	0.0003U	% Recov
Naphthalene, 1-Methyl-	0.0001U	% Recov
Naphthalene	0.0001U	% Recov
2-Methylnaphthalene	0.0001U	% Recov
2-Chloronaphthalene	0.0001U	% Recov
3,3'-Dichlorobenzidine	0.003U	% Recov
2-Methylphenol	26	% Recov
1,2-Dichlorobenzene	0.0001U	% Recov
o-Chlorophenol (2-Chlo+	23	% Recov
2,4,5-Trichlorophenol	0.0007U	% Recov
Nitrobenzene	0.0001U	% Recov
3-Nitroaniline	24J	% Recov
4-Nitroaniline	10J	% Recov
4-Nitrophenol	0.002U	% Recov
Benzyl Alcohol	35	% Recov
4-Bromophenyl-phenylet+	0.0001U	% Recov
2,4-Dimethylphenol	14	% Recov
4-Methylphenol	22	% Recov
1,4-Dichlorobenzene	0.0001U	% Recov
4-Chloroaniline	0.002U	% Recov
Phenol	19	% Recov
bis(2-Chloroethyl)Ether	0.0001U	% Recov
bis(2-Chloroethoxy)Met+	0.0001U	% Recov
BIS(2-ETHYLHEXYL) PHTN+	0.4J	% Recov
Di-n-Octyl Phthalate	0.5J	% Recov
Hexachlorobenzene	0.0001U	% Recov
Anthracene	0.2	% Recov
1,2,4-Trichlorobenzene	0.0001U	% Recov
2,4-Dichlorophenol	8	% Recov
2,4-Dinitrotoluene	0.0003U	% Recov
Pyrene	0.2	% Recov
Dimethylphthalate	0.5	% Recov
Dibenzofuran	0.0001U	% Recov
Benzo(ghi)perylene	0.0001U	% Recov
Indeno(1,2,3-cd)pyrene	0.0001U	% Recov
Benzo(b)fluoranthene	0.2	% Recov
Fluoranthene	0.2	% Recov
Benzo(k)fluoranthene	0.4	% Recov
Acenaphthylene	0.1	% Recov
Chrysene	0.3	% Recov
Retene	0.0001U	% Recov
4,6-Dinitro-2-methylph+	0.002UJ	% Recov

B/N/Acid Scan *** Continued *** Matrix Spike #2	Sediment Result	Units
1,3-Dichlorobenzene -	0.0001U	% Recov
2,6-Dinitrotoluene	0.0003U	% Recov
N-Nitroso-di-n-Propyla+	30	% Recov
4-Chlorophenyl-phenyle+	0.0001U	% Recov
BIS(2OCHLOROISOPROPYL)+	0.0001U	% Recov
Surrog: 2-Fluorobiphen+	0	% Recov
Surrog: 2-Fluorophenol	19	% Recov
Surrog: D14-Terphenyl	2	% Recov
PYRENE-D10 (SS)	1	% Recov
Surrog: D5-Nitrobenzene	0	% Recov
Surrog: D5-Phenol	36	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
ETHANE, 1,1,2,2-TETRAC+	1300NJ*	ug/kg
.GAMMA.-SITOSTEROL	690NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	1900NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	1300NJ*	ug/kg
1-DOCOSANOL	420NJ*	ug/kg
2-HEXANONE, 6-(ACETYLO+	2500NJ*	ug/kg
UNKNOWN COMPOUND 1	390NJ*	ug/kg
UNKNOWN COMPOUND 2	210NJ*	ug/kg
UNKNOWN COMPOUND 3	130NJ*	ug/kg
2-HEXANONE, 6-BROMO-	990NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	390NJ*	ug/kg
DIFTALONE (USAN)	52NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	3900NJ*	ug/kg
HEXANE, 1-PROPOXY-	1300NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352372 Description: SS05-1 Source: Sediment (General)

Begin Date: 92/08/26 12:10

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	100U	ug/kg
2,4-Dinitrophenol	1400UJ	ug/kg
Dibenzo(a,h)anthracene	260U	ug/kg
Benzo(a)anthracene	100U	ug/kg
4-Chloro-3-Methylphenol	540UJ	ug/kg
Benzoic acid	1400UJ	ug/kg
Hexachloroethane	100U	ug/kg
Hexachlorocyclopentadi+	540UJ	ug/kg
Isophorone	340J*	ug/kg
Acenaphthene	100U	ug/kg
Diethylphthalate	100U	ug/kg
Di-n-Butylphthalate	360U	ug/kg
Phenanthrene	120 *	ug/kg
Butylbenzylphthalate	260U	ug/kg
N-Nitrosodiphenylamine	1400UJ	ug/kg
Fluorene	100U	ug/kg
Carbazole	540UJ	ug/kg
Hexachlorobutadiene	260U	ug/kg
Pentachlorophenol	540UJ	ug/kg
2,4,6-Trichlorophenol	260UJ	ug/kg
2-Nitroaniline	260U	ug/kg
2-Nitrophenol	260UJ	ug/kg
Naphthalene, 1-Methyl-	40J*	ug/kg
Naphthalene	110 *	ug/kg
2-Methylnaphthalene	48J*	ug/kg
2-Chloronaphthalene	100U	ug/kg
3,3'-Dichlorobenzidine	2600U	ug/kg
2-Methylphenol	100UJ	ug/kg
1,2-Dichlorobenzene	100U	ug/kg
o-Chlorophenol (2-Chlo+	100UJ	ug/kg
2,4,5-Trichlorophenol	530UJ	ug/kg
Nitrobenzene	100U	ug/kg
3-Nitroaniline	1400UJ	ug/kg
4-Nitroaniline	1400U	ug/kg
4-Nitrophenol	1400UJ	ug/kg
Benzyl Alcohol	540U	ug/kg
4-Bromophenyl-phenylet+	100U	ug/kg
2,4-Dimethylphenol	100UJ	ug/kg
4-Methylphenol	100UJ	ug/kg
1,4-Dichlorobenzene	100U	ug/kg
4-Chloroaniline	1400U	ug/kg
Phenol	100UJ	ug/kg
bis(2-Chloroethyl)Ether	100U	ug/kg
bis(2-Chloroethoxy)Met+	100U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	150U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Octyl Phthalate	100U	ug/kg
Hexachlorobenzene	100UJ	ug/kg
Anthracene	13J*	ug/kg
1,2,4-Trichlorobenzene	100U	ug/kg
2,4-Dichlorophenol	100UJ	ug/kg
2,4-Dinitrotoluene	260U	ug/kg
Pyrene	25J*	ug/kg
Dimethylphthalate	100U	ug/kg
Dibenzofuran	50J*	ug/kg
Benzo(ghi)perylene	100U	ug/kg
Indeno(1,2,3-cd)pyrene	100U	ug/kg
Benzo(b)fluoranthene	39J*	ug/kg
Fluoranthene	67J*	ug/kg
Benzo(k)fluoranthene	100UJ	ug/kg
Acenaphthylene	100U	ug/kg
Chrysene	40JN*	ug/kg
Retene	78JN*	ug/kg
4,6-Dinitro-2-methylph+	1400UJ	ug/kg
1,3-Dichlorobenzene	100U	ug/kg
2,6-Dinitrotoluene	260U	ug/kg
N-Nitroso-di-n-Propyla+	100UJ	ug/kg
4-Chlorophenyl-phenyle+	100U	ug/kg
BIS(2OCHLOROISOPROPYL)+	100UJ	ug/kg
Surrog: 2-Fluorobiphen+	77	% Recov
Surrog: 2-Fluorophenol	17	% Recov
Surrog: Di4-Terphenyl	95	% Recov
PYRENE-D10 (SS)	39	% Recov
Surrog: D5-Nitrobenzene	62	% Recov
Surrog: D5-Phenol	19	% Recov

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
ETHANE, 1,1,2,2-TETRAC+	1200NJ*	ug/kg
CARYOPHYLLENE (VAN)	490NJ*	ug/kg
2,5-HEXANEDIONE	380NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	7600NJ*	ug/kg
9-OCTADECENOIC ACID, I+	57NJ*	ug/kg
9H-FLUOREN-9-ONE	66NJ*	ug/kg
1-HEXACOSANOL	960NJ*	ug/kg
NAPHTHALENE, 2,3-DIMET+	76NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	900NJ*	ug/kg
1-DOCOSANOL	550NJ*	ug/kg

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
2-CYCLOHEXEN-1-ONE, 3,+	370NJ*	ug/kg
PHENANTHRENE, 2-METHYL-	28NJ*	ug/kg
2-HEXANONE, 6-(ACETYLO+	1400NJ*	ug/kg
HEXANEDIOIC ACID, MONO+	110NJ*	ug/kg
UNKNOWN HYDROCARBON 1	200NJ*	ug/kg
UNKNOWN HYDROCARBON 2	220NJ*	ug/kg
UNKNOWN HYDROCARBON 3	280NJ*	ug/kg
UNKNOWN HYDROCARBON 4	300NJ*	ug/kg
UNKNOWN HYDROCARBON 5	600NJ*	ug/kg
UNKNOWN HYDROCARBON 6	89NJ*	ug/kg
UNKNOWN COMPOUND 1	480NJ*	ug/kg
UNKNOWN COMPOUND 2	380NJ*	ug/kg
UNKNOWN COMPOUND 3	140NJ*	ug/kg
UNKNOWN COMPOUND 4	4100NJ*	ug/kg
UNKNOWN COMPOUND 5	200NJ*	ug/kg
UNKNOWN COMPOUND 6	79NJ*	ug/kg
UNKNOWN COMPOUND 7	130NJ*	ug/kg
UNKNOWN COMPOUND 8	23NJ*	ug/kg
UNKNOWN COMPOUND 9	77NJ*	ug/kg
UNKNOWN COMPOUND 10	72NJ*	ug/kg
UNKNOWN COMPOUND 11	200NJ*	ug/kg
UNKNOWN COMPOUND 12	170NJ*	ug/kg
UNKNOWN COMPOUND 13	370NJ*	ug/kg
UNKNOWN COMPOUND 14	65NJ*	ug/kg
UNKNOWN COMPOUND-15	140NJ*	ug/kg
UNKNOWN COMPOUND-16	540NJ*	ug/kg
UNKNOWN COMPOUND-17	440NJ*	ug/kg
UNKNOWN COMPOUND-18	1400NJ*	ug/kg
2-HEXANONE, 6-BROMO-	1200NJ*	ug/kg
UNDECANE 5-CYCLOHEXYL-+	380NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	570NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	1700NJ*	ug/kg
1,E-4,Z-8-DODECATRIENE	130NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352373 Description: SS05-2 Source: Sediment (General)

Begin Date: 92/08/26 12:10

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	650 *	ug/kg
2,4-Dinitrophenol	5700UJ	ug/kg
Dibenzo(a,h)anthracene	170NJ*	ug/kg
Benzo(a)anthracene	770 *	ug/kg
4-Chloro-3-Methylphenol	2300U	ug/kg
Benzoic acid	5700UJ	ug/kg
Hexachloroethane	440U	ug/kg
Hexachlorocyclopentadi+	2300UJ	ug/kg
Isophorone	50J*	ug/kg
Acenaphthene	440U	ug/kg
Diethylphthalate	440U	ug/kg
Di-n-Butylphthalate	440U	ug/kg
Phenanthrene	6800 *	ug/kg
Butylbenzylphthalate	1100U	ug/kg
N-Nitrosodiphenylamine	92NJ*	ug/kg
Fluorene	68NJ*	ug/kg
Carbazole	350J*	ug/kg
Hexachlorobutadiene	1100U	ug/kg
Pentachlorophenol	2300U	ug/kg
2,4,6-Trichlorophenol	1100U	ug/kg
2-Nitroaniline	1100U	ug/kg
2-Nitrophenol	1100U	ug/kg
Naphthalene, 1-Methyl-	1900 *	ug/kg
Naphthalene	5700 *	ug/kg
2-Methylnaphthalene	2500 *	ug/kg
2-Chloronaphthalene	440U	ug/kg
3,3'-Dichlorobenzidine	11000U	ug/kg
2-Methylphenol	440U	ug/kg
1,2-Dichlorobenzene	440U	ug/kg
o-Chlorophenol (2-Chlo+	440U	ug/kg
2,4,5-Trichlorophenol	2200U	ug/kg
Nitrobenzene	440UJ	ug/kg
3-Nitroaniline	5700UJ	ug/kg
4-Nitroaniline	5700UJ	ug/kg
4-Nitrophenol	5700UJ	ug/kg
Benzyl Alcohol	2300U	ug/kg
4-Bromophenyl-phenylet+	440U	ug/kg
2,4-Dimethylphenol	440U	ug/kg
4-Methylphenol	440U	ug/kg
1,4-Dichlorobenzene	440U	ug/kg
4-Chloroaniline	5700U	ug/kg
Phenol	440U	ug/kg
bis(2-Chloroethyl)Ether	440U	ug/kg
bis(2-Chloroethoxy)Met+	440U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	440U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Octyl Phthalate	440U	ug/kg
Hexachlorobenzene	440U	ug/kg
Anthracene	460J*	ug/kg
1,2,4-Trichlorobenzene	440U	ug/kg
2,4-Dichlorophenol	440U	ug/kg
2,4-Dinitrotoluene	1100U	ug/kg
Pyrene	3400 *	ug/kg
Dimethylphthalate	440U	ug/kg
Dibenzofuran	3400U	ug/kg
Benzo(ghi)perylene	910 *	ug/kg
Indeno(1,2,3-cd)pyrene	930 *	ug/kg
Benzo(b)fluoranthene	2300 *	ug/kg
Fluoranthene	3400 *	ug/kg
Benzo(k)fluoranthene	580 *	ug/kg
Acenaphthylene	440U	ug/kg
Chrysene	1800 *	ug/kg
Retene	1600 *	ug/kg
4,6-Dinitro-2-methylph+	5700UJ	ug/kg
1,3-Dichlorobenzene	440U	ug/kg
2,6-Dinitrotoluene	1100U	ug/kg
N-Nitroso-di-n-Propyla+	440UJ	ug/kg
4-Chlorophenyl-phenyle+	440U	ug/kg
BIS(2OCHLOROISOPROPYL)+	440UJ	ug/kg
Surrog: 2-Fluorobiphen+	107	% Recov
Surrog: 2-Fluorophenol	38	% Recov
Surrog: D14-Terphenyl	114	% Recov
PYRENE-D10 ($S)	119	% Recov
Surrog: D5-Nitrobenzene	55	% Recov
Surrog: D5-Phenol	40	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
9,10-ANTHRACENEDIONE	1300NJ*	ug/kg
CARYOPHYLLENE (VAN)	970NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	130000NJ*	ug/kg
BENZO[B]NAPHTHO[2,3-D]+	1300NJ*	ug/kg
NAPHTHALENE, 1,6-DIMET+	1000NJ*	ug/kg
9H-FLUOREN-9-ONE	3600NJ*	ug/kg
NAPHTHALENE, 1-METHYL-+	860NJ*	ug/kg
NAPHTHALENE, 1,6-DIMET+	1000NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	13000NJ*	ug/kg
ANTHRACENE, 1-METHYL-	540NJ*	ug/kg

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
ANTHRACENE, 2-METHYL-	580NJ*	ug/kg
HEXANOIC ACID, ANHYDRI+	430NJ*	ug/kg
2-HEXANONE, 6-(ACETYLO+	12000NJ*	ug/kg
CYCLOPENTA(DEF)PHENANT+	1150NJ*	ug/kg
UNKNOWN HYDROCARBON 1	1900NJ*	ug/kg
UNKNOWN HYDROCARBON 2	3400NJ*	ug/kg
UNKNOWN HYDROCARBON 3	5300NJ*	ug/kg
UNKNOWN COMPOUND 1	2200NJ*	ug/kg
UNKNOWN COMPOUND 2	6600NJ*	ug/kg
UNKNOWN COMPOUND 3	1400NJ*	ug/kg
UNKNOWN COMPOUND 4	1100NJ*	ug/kg
UNKNOWN COMPOUND 5	1100NJ*	ug/kg
UNKNOWN COMPOUND 6	28000NJ*	ug/kg
UNKNOWN COMPOUND 7	900NJ*	ug/kg
2-HEXANONE, 6-BROMO-	5000NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	7300NJ*	ug/kg
8,9-DIHYDROCYCLOPENTA[+	710NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	31000NJ*	ug/kg
2-PHENYLNAPHTHALENE	750NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU2Z

Laboratory: EPA, Manchester

Sample No: 92 352374 Description: SS06-1 Source: Sediment (General)

Begin Date: 92/08/26 12:30

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	120UJ	ug/kg
2,4-Dinitrophenol	1600UJ	ug/kg
Dibenzo(a,h)anthracene	310UJ	ug/kg
Benzo(a)anthracene	120U	ug/kg
4-Chloro-3-Methylphenol	630UJ	ug/kg
Benzoic acid	1600UJ	ug/kg
Hexachloroethane	120U	ug/kg
Hexachlorocyclopentadi+	630UJ	ug/kg
Isophorone	83J*	ug/kg
Acenaphthene	120U	ug/kg
Diethylphthalate	120U	ug/kg
Di-n-Butylphthalate	120U	ug/kg
Phenanthrene	18J*	ug/kg
Butylbenzylphthelate	310U	ug/kg
N-Nitrosodiphenylamine	1600UJ	ug/kg
Fluorene	120U	ug/kg
Carbazole	630UJ	ug/kg
Hexachlorobutadiene	310U	ug/kg
Pentachlorophenol	630UJ	ug/kg
2,4,6-Trichlorophenol	310UJ	ug/kg
2-Nitroaniline	310U	ug/kg
2-Nitrophenol	310U	ug/kg
Naphthalene, 1-Methyl-	14NJ*	ug/kg
Naphthalene	18J*	ug/kg
2-Methylnaphthalene	15J*	ug/kg
2-Chloronaphthalene	120U	ug/kg
3,3'-Dichlorobenzidine	3100UJ	ug/kg
2-Methylphenol	120UJ	ug/kg
1,2-Dichlorobenzene	120U	ug/kg
o-Chlorophenol (2-Chlo+	120UJ	ug/kg
2,4,5-Trichlorophenol	620UJ	ug/kg
Nitrobenzene	120UJ	ug/kg
3-Nitroaniline	1600UJ	ug/kg
4-Nitroaniline	1600U	ug/kg
4-Nitrophenol	1600UJ	ug/kg
Benzyl Alcohol	REJ	ug/kg
4-Bromophenyl-phenylet+	120U	ug/kg
2,4-Dimethylphenol	120U	ug/kg
4-Methylphenol	120UJ	ug/kg
1,4-Dichlorobenzene	120U	ug/kg
4-Chloroaniline	1600U	ug/kg
Phenol	120UJ	ug/kg
bis(2-Chloroethyl)Ether	120U	ug/kg
bis(2-Chloroethoxy)Met+	120U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	770U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Octyl Phthalate	120U	ug/kg
Hexachlorobenzene	120U	ug/kg
Anthracene	120U	ug/kg
1,2,4-Trichlorobenzene	120U	ug/kg
2,4-Dichlorophenol	120U	ug/kg
2,4-Dinitrotoluene	310U	ug/kg
Pyrene	6J*	ug/kg
Dimethylphthalate	120U	ug/kg
Dibenzofuran	11NJ*	ug/kg
Benzo(ghi)perylene	120UJ	ug/kg
Indeno(1,2,3-cd)pyrene	120UJ	ug/kg
Benzo(b)fluoranthene	120UJ	ug/kg
Fluoranthene	120U	ug/kg
Benzo(k)fluoranthene	120UJ	ug/kg
Acenaphthylene	120U	ug/kg
Chrysene	120U	ug/kg
Retene	120U	ug/kg
4,6-Dinitro-2-methylph+	1600UJ	ug/kg
1,3-Dichlorobenzene	120U	ug/kg
2,6-Dinitrotoluene	310U	ug/kg
N-Nitroso-di-n-Propyla+	120U	ug/kg
4-Chlorophenyl-phenyle+	120U	ug/kg
BIS(2OCHLOROISOPROPYL)+	120U	ug/kg
Surrog: 2-Fluorobiphen+	82	% Recov
Surrog: 2-Fluorophenol	63	% Recov
Surrog: D14-Terphenyl	55	% Recov
PYRENE-D10 (SS)	50	% Recov
Surrog: D5-Nitrobenzene	84	% Recov
Surrog: D5-Phenol	88	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
CARYOPHYLLENE (VAN)	660NJ*	ug/kg
2-HEPTANOL ACETATE	2200NJ*	ug/kg
2-PENTANONE, 4-METHOXY+	140NJ*	ug/kg
BICYCLO[7.2.0]UNDEC-4-+	96NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	17000NJ*	ug/kg
9,12,15-OCTADECATRIENO+	8200NJ*	ug/kg
BUTANOIC ACID, 3-OXO-,+	1350NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	3700NJ*	ug/kg
2,4-PENTANEDIONE, 3-ME+	360NJ*	ug/kg
2-CYCLOHEXEN-1-ONE, 3,+	640NJ*	ug/kg

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
HEXANOIC ACID, THIO-, -+	120NJ*	ug/kg
HEXANEDIOIC ACID, MONO+	2800NJ*	ug/kg
ETHANONE, 1-(3,3-DIMET+	310NJ*	ug/kg
CYCLOPENTENE, 1-ISOPRO+	630NJ*	ug/kg
UNKNOWN COMPOUND 1	2000000NJ*	ug/kg
UNKNOWN COMPOUND 2	320NJ*	ug/kg
UNKNOWN COMPOUND 3	390NJ*	ug/kg
UNKNOWN COMPOUND 4	560NJ*	ug/kg
UNKNOWN COMPOUND 5	460NJ*	ug/kg
UNKNOWN COMPOUND 6	340NJ*	ug/kg
UNKNOWN COMPOUND 7	480NJ*	ug/kg
UNKNOWN COMPOUND 8	1100NJ*	ug/kg
UNKNOWN COMPOUND 9	990NJ*	ug/kg
UNKNOWN COMPOUND 10	2700NJ*	ug/kg
UNKNOWN COMPOUND 11	660NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	2800NJ*	ug/kg
ETHER, HEXYL ISOPROPYL	160NJ*	ug/kg
1,3-DIOXANE, 2,4,6-TRI+	140NJ*	ug/kg
1-HEXADECANOL	1100NJ*	ug/kg
1,3,2-DIOXABORINANE, 2+	110NJ*	ug/kg
BUTANAMIDE, N-FORMYL-2+	380NJ*	ug/kg
3-EICOSENE, (E)- (9CI)	1400NJ*	ug/kg
4-HEXADECEN-6-YNE, (E)-	320NJ*	ug/kg
N,N'-BIS(2-METHYL-2-NI+	120NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352375 Description: SS06-2 Source: Sediment (General)

Begin Date: 92/08/26 12:30

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	160D *	ug/kg
2,4-Dinitrophenol	5200UJ	ug/kg
Dibenzo(a,h)anthracene	210NJ*	ug/kg
Benzo(a)anthracene	1500 *	ug/kg
4-Chloro-3-Methylphenol	2100U	ug/kg
Benzoic acid	5200UJ	ug/kg
Hexachloroethane	400U	ug/kg
Hexachlorocyclopentadi+	2100UJ	ug/kg
Isophorone	3000 *	ug/kg
Acenaphthene	400U	ug/kg
Diethylphthalate	400U	ug/kg
Di-n-Butylphthalate	400U	ug/kg
Phenanthrene	680 *	ug/kg
Butylbenzylphthalate	1000U	ug/kg
N-Nitrosodiphenylamine	5200UJ	ug/kg
Fluorene	400U	ug/kg
Carbazole	2100UJ	ug/kg
Hexachlorobutadiene	1000U	ug/kg
Pentachlorophenol	2100UJ	ug/kg
2,4,6-Trichlorophenol	1000UJ	ug/kg
2-Nitroaniline	1000U	ug/kg
2-Nitrophenol	1000U	ug/kg
Naphthalene, 1-Methyl-	190J*	ug/kg
Naphthalene	190J*	ug/kg
2-Methylnaphthalene	250J*	ug/kg
2-Chloronaphthalene	400U	ug/kg
3,3'-Dichlorobenzidine	10000U	ug/kg
2-Methylphenol	400U	ug/kg
1,2-Dichlorobenzene	400U	ug/kg
o-Chlorophenol (2-Chlo+	400U	ug/kg
2,4,5-Trichlorophenol	2000UJ	ug/kg
Nitrobenzene	400U	ug/kg
3-Nitroaniline	5200UJ	ug/kg
4-Nitroaniline	5200UJ	ug/kg
4-Nitrophenol	5200UJ	ug/kg
Benzyl Alcohol	2100UJ	ug/kg
4-Bromophenyl-phenylet+	400U	ug/kg
2,4-Dimethylphenol	400U	ug/kg
4-Methylphenol	400U	ug/kg
1,4-Dichlorobenzene	400U	ug/kg
4-Chloroaniline	5200U	ug/kg
Phenol	400U	ug/kg
bis(2-Chloroethyl)Ether	400U	ug/kg
bis(2-Chloroethoxy)Met+	400U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	400U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Octyl Phthalate	400U	ug/kg
Hexachlorobenzene	400UJ	ug/kg
Anthracene	63J*	ug/kg
1,2,4-Trichlorobenzene	2900 *	ug/kg
2,4-Dichlorophenol	400U	ug/kg
2,4-Dinitrotoluene	1000UJ	ug/kg
Pyrene	3200 *	ug/kg
Dimethylphthalate	400U	ug/kg
Dibenzofuran	51JN*	ug/kg
Benzo(ghi)perylene	1300 *	ug/kg
Indeno(1,2,3-cd)pyrene	1100 *	ug/kg
Benzo(b)fluoranthene	1800NJ*	ug/kg
Fluoranthene	2300 *	ug/kg
Benzo(k)fluoranthene	670NJ*	ug/kg
Acenaphthylene	37J*	ug/kg
Chrysene	1700NJ*	ug/kg
Retene	450JN*	ug/kg
4,6-Dinitro-2-methylph+	5200UJ	ug/kg
1,3-Dichlorobenzene	400U	ug/kg
2,6-Dinitrotoluene	1000U	ug/kg
N-Nitroso-di-n-Propyla+	400U	ug/kg
4-Chlorophenyl-phenyle+	400UJ	ug/kg
BIS(2OCHLOROISOPROPYL)+	400U	ug/kg
Surrog: 2-Fluorobiphen+	100	% Recov
Surrog: 2-Fluorophenol	33	% Recov
Surrog: D14-Terphenyl	100	% Recov
PYRENE-D10 (SS)	105	% Recov
Surrog: D5-Nitrobenzene	76	% Recov
Surrog: D5-Phenol	63	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
2-PENTANONE, 4-METHOXY+	4200NJ*	ug/kg
1,3,5-Trichlorobenzene	460NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	33000NJ*	ug/kg
3-PENTEN-2-ONE, 4-METH+	75000NJ*	ug/kg
BENZO[GHI]FLUORANTHENE	820NJ*	ug/kg
BENZO[J]FLUORANTHENE	1700NJ*	ug/kg
2,5-HEPTADIEN-4-ONE, 2+	1300NJ*	ug/kg
ANTHRACENE, 2-METHYL-	220NJ*	ug/kg
1,2,3,5-TETRACHLOROBEN+	710NJ*	ug/kg
2,4-PENTANEDIONE, 3-(2+	170NJ*	ug/kg

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
HEXANEDIOIC ACID, MONO+	8900NJ*	ug/kg
CYCLOPENTENE, 1-ISOPRO+	760NJ*	ug/kg
1,4-CYCLOOCTADIENE, (Z+	1100NJ*	ug/kg
2-PROPANONE, 1-(3,5,5-+	180NJ*	ug/kg
1,2-BENZENEDICARBOXYL+	40NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	200NJ*	ug/kg
2-PHENYLNAPHTHALENE	200NJ*	ug/kg
1,1'-BIPHENYL, 2,3,3',+	490NJ*	ug/kg
1,1'-BIPHENYL, 2,2',3,+	710NJ*	ug/kg
1,1'-BIPHENYL, 2,2',3,+	2600NJ*	ug/kg
1,1'-BIPHENYL, 2,2',3,+	2500NJ*	ug/kg
1,1'-BIPHENYL, 2,2',3,+	1100NJ*	ug/kg
1,1'-BIPHENYL, 2,2',3,+	970NJ*	ug/kg
1,1'-BIPHENYL, 2,2',3,+	2200NJ*	ug/kg
1,1'-BIPHENYL, 2,2',4,+	3400NJ*	ug/kg
1,1'-BIPHENYL, 2,2',3,+	930NJ*	ug/kg
2-HEPTANONE, 6-METHYL-+	640NJ*	ug/kg
1,1'-BIPHENYL, 2,2',3,+	1200NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352376 Description: SS07-1 Source: Sediment (General)

Begin Date: 92/08/26 12:10

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	120U	ug/kg
2,4-Dinitrophenol	REJ	ug/kg
Dibenzo(a,h)anthracene	300U	ug/kg
Benzo(a)anthracene	120U	ug/kg
4-Chloro-3-Methylphenol	REJ	ug/kg
Benzoic acid	REJ	ug/kg
Hexachloroethane	120U	ug/kg
Hexachlorocyclopentadi+	600UJ	ug/kg
Isophorone	5J*	ug/kg
Acenaphthene	120U	ug/kg
Diethylphthalate	300U	ug/kg
Di-n-Butylphthalate	810U	ug/kg
Phenanthrene	65J*	ug/kg
Butylbenzylphthalate	310U	ug/kg
N-Nitrosodiphenylamine	1500UJ	ug/kg
Fluorene	120U	ug/kg
Carbazole	600UJ	ug/kg
Hexachlorobutadiene	300U	ug/kg
Pentachlorophenol	REJ	ug/kg
2,4,6-Trichlorophenol	REJ	ug/kg
2-Nitroaniline	300U	ug/kg
2-Nitrophenol	REJ	ug/kg
Naphthalene, 1-Methyl-	17J*	ug/kg
Naphthalene	45J*	ug/kg
2-Methylnaphthalene	22J*	ug/kg
2-Chloronaphthalene	120U	ug/kg
3,3'-Dichlorobenzidine	3000U	ug/kg
2-Methylphenol	REJ	ug/kg
1,2-Dichlorobenzene	120U	ug/kg
o-Chlorophenol (2-Chlo+	REJ	ug/kg
2,4,5-Trichlorophenol	REJ	ug/kg
Nitrobenzene	120U	ug/kg
3-Nitroaniline	1500UJ	ug/kg
4-Nitroaniline	1500U	ug/kg
4-Nitrophenol	REJ	ug/kg
Benzyl Alcohol	600U	ug/kg
4-Bromophenyl-phenylet+	120UJ	ug/kg
2,4-Dimethylphenol	REJ	ug/kg
4-Methylphenol	REJ	ug/kg
1,4-Dichlorobenzene	120U	ug/kg
4-Chloroaniline	1500U	ug/kg
Phenol	REJ	ug/kg
bis(2-Chloroethyl)Ether	120U	ug/kg
bis(2-Chloroethoxy)Met+	120U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	1700U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Octyl Phthalate	120UJ	ug/kg
Hexachlorobenzene	120UJ	ug/kg
Anthracene	9J*	ug/kg
1,2,4-Trichlorobenzene	120U	ug/kg
2,4-Dichlorophenol	REJ	ug/kg
2,4-Dinitrotoluene	300U	ug/kg
Pyrene	43J*	ug/kg
Dimethylphthalate	120U	ug/kg
Dibenzofuran	21J*	ug/kg
Benzo(ghi)perylene	66J*	ug/kg
Indeno(1,2,3-cd)pyrene	52J*	ug/kg
Benzo(b)fluoranthene	79J*	ug/kg
Fluoranthene	45J*	ug/kg
Benzo(k)fluoranthene	120UJ	ug/kg
Acenaphthylene	120U	ug/kg
Chrysene	120U	ug/kg
Retene	28J*	ug/kg
4,6-Dinitro-2-methylph+	REJ	ug/kg
1,3-Dichlorobenzene	120U	ug/kg
2,6-Dinitrotoluene	300U	ug/kg
N-Nitroso-di-n-Propyla+	120UJ	ug/kg
4-Chlorophenyl-phenyle+	120U	ug/kg
BIS(2OCHLOROISOPROPYL)+	120UJ	ug/kg
Surrog: 2-Fluorobiphen+	83	% Recov
Surrog: 2-Fluorophenol	17	% Recov
Surrog: D14-Terphenyl	91	% Recov
PYRENE-D10 (SS)	90	% Recov
Surrog: D5-Nitrobenzene	59	% Recov
Surrog: D5-Phenol	8	% Recov

Tent Idant - B/N/Aci	Sediment Result	Units
ETHANE, 1,1,2,2-TETRAC+	600NJ*	ug/kg
CARYOPHYLLENE (VAN)	220NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	6800NJ*	ug/kg
9,12,15-OCTADECATRIENO+	2000NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	930NJ*	ug/kg
1-DOCOSANOL	2800NJ*	ug/kg
2-HEXANONE, 6-(ACETYLO+	1200NJ*	ug/kg
UNKNOWN HYDROCARBON 1	210NJ*	ug/kg
UNKNOWN HYDROCARBON 2	170NJ*	ug/kg
UNKNOWN HYDROCARBON 3	1200NJ*	ug/kg

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
UNKNOWN HYDROCARBON 4	1400NJ*	ug/kg
UNKNOWN HYDROCARBON 5	1900NJ*	ug/kg
UNKNOWN HYDROCARBON 6	1700NJ*	ug/kg
UNKNOWN COMPOUND 1	220NJ*	ug/kg
UNKNOWN COMPOUND 2	64NJ*	ug/kg
UNKNOWN COMPOUND 3	460NJ*	ug/kg
UNKNOWN COMPOUND 4	410NJ*	ug/kg
UNKNOWN COMPOUND 5	82NJ*	ug/kg
UNKNOWN COMPOUND 6	640NJ*	ug/kg
UNKNOWN COMPOUND 7	1000NJ*	ug/kg
UNKNOWN COMPOUND 8	1200NJ*	ug/kg
UNKNOWN COMPOUND 9	120NJ*	ug/kg
UNKNOWN COMPOUND 10	190NJ*	ug/kg
UNKNOWN COMPOUND 11	700NJ*	ug/kg
UNKNOWN COMPOUND 12	2100NJ*	ug/kg
2-HEXANONE, 6-BROMO-	580NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	620NJ*	ug/kg
1,2-BENZENEDICARBOXYLI+	340NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	1300NJ*	ug/kg
1-HEXADECANOL	2400NJ*	ug/kg
PROPANOIC ACID, 2-METH+	110NJ*	ug/kg
1,E-4,Z-8-DODECATRIENE	75NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352377 Description: SS07-2 Source: Sediment (General)

Begin Date: 92/08/26 12:10

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	91J*	ug/kg
2,4-Dinitrophenol	5200UJ	ug/kg
Dibenzo(a,h)anthracene	1000U	ug/kg
Benzo(a)anthracene	270J*	ug/kg
4-Chloro-3-Methylphenol	2100U	ug/kg
Benzoic acid	5200UJ	ug/kg
Hexachloroethane	400U	ug/kg
Hexachlorocyclopentadi+	2100UJ	ug/kg
Isophorone	820J*	ug/kg
Acenaphthene	91NJ*	ug/kg
Diethylphthalate	400U	ug/kg
Di-n-Butylphthalate	400U	ug/kg
Phenanthrene	4300U	ug/kg
Butylbenzylphthalate	1000U	ug/kg
N-Nitrosodiphenylamine	84NJ*	ug/kg
Fluorene	31NJ*	ug/kg
Carbazole	130J*	ug/kg
Hexachlorobutadiene	1000U	ug/kg
Pentachlorophenol	2100U	ug/kg
2,4,6-Trichlorophenol	1000U	ug/kg
2-Nitroaniline	1000U	ug/kg
2-Nitrophenol	1000U	ug/kg
Naphthalene, 1-Methyl-	1800 *	ug/kg
Naphthalene	4400 *	ug/kg
2-Methylnaphthalene	2200 *	ug/kg
2-Chloronaphthalene	400U	ug/kg
3,3'-Dichlorobenzidine	10000U	ug/kg
2-Methylphenol	400U	ug/kg
1,2-Dichlorobenzene	400U	ug/kg
o-Chlorophenol (2-Chlo+	400U	ug/kg
2,4,5-Trichlorophenol	2000U	ug/kg
Nitrobenzene	400U	ug/kg
3-Nitroaniline	5200UJ	ug/kg
4-Nitroaniline	5200UJ	ug/kg
4-Nitrophenol	5200UJ	ug/kg
Benzyl Alcohol	2100U	ug/kg
4-Bromophenyl-phenylet+	400U	ug/kg
2,4-Dimethylphenol	400U	ug/kg
4-Methylphenol	400U	ug/kg
1,4-Dichlorobenzene	400U	ug/kg
4-Chloroaniline	5200U	ug/kg
Phenol	400U	ug/kg
bis(2-Chloroethyl)Ether	400U	ug/kg
bis(2-Chloroethoxy)Met+	400U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	2300U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Octyl Phthelate	400U	ug/kg
Hexachlorobenzene	400U	ug/kg
Anthracene	220J*	ug/kg
1,2,4-Trichlorobenzene	400U	ug/kg
2,4-Dichlorophenol	400U	ug/kg
2,4-Dinitrotoluene	1000U	ug/kg
Pyrene	850 *	ug/kg
Dimethylphthalate	400U	ug/kg
Dibenzofuran	2500 *	ug/kg
Benzo(ghi)perylene	400U	ug/kg
Indeno(1,2,3-cd)pyrene	170J*	ug/kg
Benzo(b)fluoranthene	760 *	ug/kg
Fluoranthene	1700 *	ug/kg
Benzo(k)fluoranthene	210J*	ug/kg
Acenaphthylene	24J*	ug/kg
Chrysene	670 *	ug/kg
Retene	1100 *	ug/kg
4,6-Dinitro-2-methylph+	5200UJ	ug/kg
1,3-Dichlorobenzene	400U	ug/kg
2,6-Dinitrotoluene	1000U	ug/kg
N-Nitroso-di-n-Propyla+	400UJ	ug/kg
4-Chlorophenyl-phenyle+	400U	ug/kg
BIS(2OCHLOROISOPROPYL)+	400UJ	ug/kg
Surrog: 2-Fluorobiphen+	106	% Recov
Surrog: 2-Fluorophenol	38	% Recov
Surrog: D14-Terphenyl	109	% Recov
PYRENE-D10 (SS)	81	% Recov
Surrog: D5-Nitrobenzene	76	% Recov
Surrog: D5-Phenol	62	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
7H-BENZ[DE]ANTHRACENE-+	380NJ*	ug/kg
9,10-ANTHRACENEDIONE	720NJ*	ug/kg
1,1'-BIPHENYL	760NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	24000NJ*	ug/kg
BENZO[B]NAPHTHO[2,3-D]+	590NJ*	ug/kg
9,12,15-OCTADECATRIENO+	1900NJ*	ug/kg
NAPHTHALENE, 1,6-DIMET+	600NJ*	ug/kg
9H-FLUOREN-9-ONE	2600NJ*	ug/kg
NAPHTHALENE, 1-METHYL-+	550NJ*	ug/kg
NAPHTHALENE, 1,8-DIMET+	800NJ*	ug/kg

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
NAPHTHALENE, 1,5-DIMET+	610NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	2200NJ*	ug/kg
ANTHRACENE, 2-METHYL-	500NJ*	ug/kg
2-HEXANONE, 6-(ACETYLO+	1400NJ*	ug/kg
CYCLOPENTA(DEF)PHENANT+	760NJ*	ug/kg
UNKNOWN HYDROCARBON 1	1700NJ*	ug/kg
UNKNOWN HYDROCARBON 2	1600NJ*	ug/kg
UNKNOWN HYDROCARBON 3	2400NJ*	ug/kg
UNKNOWN HYDROCARBON 4	3400NJ*	ug/kg
UNKNOWN COMPOUND 1	560NJ*	ug/kg
UNKNOWN COMPOUND 2	1000NJ*	ug/kg
UNKNOWN COMPOUND 3	330NJ*	ug/kg
UNKNOWN COMPOUND 4	140NJ*	ug/kg
2-HEXANONE, 6-BROMO-	600NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	1060NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	4300NJ*	ug/kg
NAPHTHALENE, 7-BUTYL-1+	460NJ*	ug/kg
2,6-DIMETHYL-6-NITRO-2+	590NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Blank ID: BS2246

B/N/Acid Scan Blank #1	Sediment Result	Units
Benzo(a)pyrene	99U	ug/kg
2,4-Dinitrophenol	1300UJ	ug/kg
Dibenzo(a,h)anthracene	250U	ug/kg
Benzo(a)anthracene	99U	ug/kg
4-Chloro-3-Methylphenol	510U	ug/kg
Benzoic acid	1300UJ	ug/kg
Hexachloroethane	99U	ug/kg
Hexachlorocyclopentadi+	510UJ	ug/kg
Isophorone	99U	ug/kg
Acenaphthene	99U	ug/kg
Diethylphthalate	99U	ug/kg
Di-n-Butylphthalate	26J*	ug/kg
Phenanthrene	6J*	ug/kg
Butylbenzylphthalate	250U	ug/kg
N-Nitrosodiphenylamine	12J*	ug/kg
Fluorene	99U	ug/kg
Carbazole	510UJ	ug/kg
Hexachlorobutadiene	250UJ	ug/kg
Pentachlorophenol	510U	ug/kg
2,4,6-Trichlorophenol	250UJ	ug/kg
2-Nitroaniline	250UJ	ug/kg
2-Nitrophenol	250U	ug/kg
Naphthalene, 1-Methyl-	99U	ug/kg
Naphthalene	4J*	ug/kg
2-Methylnaphthalene	99U	ug/kg
2-Chloronaphthalene	99U	ug/kg
3,3'-Dichlorobenzidine	2500U	ug/kg
2-Methylphenol	99U	ug/kg
1,2-Dichlorobenzene	99U	ug/kg
o-Chlorophenol (2-Chlo+	99U	ug/kg
2,4,5-Trichlorophenol	500UJ	ug/kg
Nitrobenzene	99U	ug/kg
3-Nitroaniline	1300UJ	ug/kg
4-Nitroaniline	1300U	ug/kg
4-Nitrophenol	1300U	ug/kg
Benzyl Alcohol	510UJ	ug/kg
4-Bromophenyl-phenylet+	99UJ	ug/kg
2,4-Dimethylphenol	99U	ug/kg
4-Methylphenol	99U	ug/kg
1,4-Dichlorobenzene	99U	ug/kg
4-Chloroaniline	1300U	ug/kg
Phenol	99U	ug/kg
bis(2-Chloroethyl)Ether	99U	ug/kg
bis(2-Chloroethoxy)Met+	99U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	54J*	ug/kg

B/N/Acid Scan Blank #1 *** Continued ***	Sediment Result	Units
Di-n-Octyl Phthalate	3J*	ug/kg
Hexachlorobenzene	99UJ	ug/kg
Anthracene	99U	ug/kg
1,2,4-Trichlorobenzene	99U	ug/kg
2,4-Dichlorophenol	99U	ug/kg
2,4-Dinitrotoluene	250U	ug/kg
Pyrene	9J*	ug/kg
Dimethylphthalate	99U	ug/kg
Dibenzofuran	99U	ug/kg
Benzo(ghi)perylene	99U	ug/kg
Indeno(1,2,3-cd)pyrene	99U	ug/kg
Benzo(b)fluoranthene	99U	ug/kg
Fluoranthene	99U	ug/kg
Benzo(k)fluoranthene	99U	ug/kg
Acenaphthylene	99U	ug/kg
Chrysene	99U	ug/kg
Retene	99U	ug/kg
4,6-Dinitro-2-methylph+	1300UJ	ug/kg
1,3-Dichlorobenzene	99U	ug/kg
2,6-Dinitrotoluene	250U	ug/kg
N-Nitroso-di-n-Propyla+	99U	ug/kg
4-Chlorophenyl-phenyle+	99UJ	ug/kg
BIS(2OCHLOROISOPROPYL)+	99U	ug/kg
Surrog: 2-Fluorobiphen+	66	% Recov
Surrog: 2-Fluorophenol	14	% Recov
Surrog: D14-Terphenyl	77	% Recov
PYRENE-D10 (SS)	42	% Recov
Surrog: D5-Nitrobenzene	54	% Recov
Surrog: D5-Phenol	19	% Recov

Tent Ident - B/N/Aci Blank #1	Sediment Result	Units
UNKNOWN COMPOUND	160NJ*	ug/kg
ETHANE, 1,1,2,2-TETRAC+	210NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	5600NJ*	ug/kg
3-PENTEN-2-ONE, 4-METH+	11000NJ*	ug/kg
2,5-HEPTADIEN-4-ONE, 2+	250NJ*	ug/kg
2,4-PENTANEDIONE, 3-(2+	51NJ*	ug/kg
UNKNOWN COMPOUND 1	34NJ*	ug/kg
2-BUTANONE, 4-(ACETYLO+	1600NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	460NJ*	ug/kg
2,6-DIMETHYL-6-NITRO-2+	390NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Blank ID: BS2246D

B/N/Acid Scan Blank #2	Sediment Result	Units
Benzo(a)pyrene	99U	ug/kg
2,4-Dinitrophenol	1300UJ	ug/kg
Dibenzo(a,h)anthracene	250U	ug/kg
Benzo(a)anthracene	99U	ug/kg
4-Chloro-3-Methylphenol	510U	ug/kg
Benzoic acid	1300UJ	ug/kg
Hexachloroethane	99U	ug/kg
Hexachlorocyclopentadi+	510UJ	ug/kg
Isophorone	150U	ug/kg
Acenaphthene	99U	ug/kg
Diethylphthalate	99U	ug/kg
Di-n-Butylphthalate	55J*	ug/kg
Phenanthrene	8J*	ug/kg
Butylbenzylphthalate	250U	ug/kg
N-Nitrosodiphenylamine	1300UJ	ug/kg
Fluorene	99U	ug/kg
Carbazole	510UJ	ug/kg
Hexachlorobutadiene	250UJ	ug/kg
Pentachlorophenol	510U	ug/kg
2,4,6-Trichlorophenol	250UJ	ug/kg
2-Nitroaniline	250UJ	ug/kg
2-Nitrophenol	250U	ug/kg
Naphthalene, 1-Methyl-	99U	ug/kg
Naphthalene	6J*	ug/kg
2-Methylnaphthalene	99U	ug/kg
2-Chloronaphthalene	99U	ug/kg
3,3'-Dichlorobenzidine	2500U	ug/kg
2-Methylphenol	99U	ug/kg
1,2-Dichlorobenzene	99U	ug/kg
o-Chlorophenol (2-Chlo+	99U	ug/kg
2,4,5-Trichlorophenol	500UJ	ug/kg
Nitrobenzene	99U	ug/kg
3-Nitroaniline	1300UJ	ug/kg
4-Nitroaniline	1300U	ug/kg
4-Nitrophenol	1300U	ug/kg
Benzyl Alcohol	510UJ	ug/kg
4-Bromophenyl-phenylet+	99UJ	ug/kg
2,4-Dimethylphenol	99U	ug/kg
4-Methylphenol	99U	ug/kg
1,4-Dichlorobenzene	99U	ug/kg
4-Chloroaniline	1300U	ug/kg
Phenol	33J*	ug/kg
bis(2-Chloroethyl)Ether	99U	ug/kg
bis(2-Chloroethoxy)Met+	99U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	24J*	ug/kg

B/N/Acid Scan *** Continued *** Blank #2	Sediment Result	Units
Di-n-Octyl Phthalate	99UJ	ug/kg
Hexachlorobenzene	99UJ	ug/kg
Anthracene	99U	ug/kg
1,2,4-Trichlorobenzene	99U	ug/kg
2,4-Dichlorophenol	99U	ug/kg
2,4-Dinitrotoluene	250U	ug/kg
Pyrene	99U	ug/kg
Dimethylphthalate	99U	ug/kg
Dibenzofuran	99U	ug/kg
Benzo(ghi)perylene	99U	ug/kg
Indeno(1,2,3-cd)pyrene	99U	ug/kg
Benzo(b)fluoranthene	99U	ug/kg
Fluoranthene	4J*	ug/kg
Benzo(k)fluoranthene	99U	ug/kg
Acenaphthylene	99U	ug/kg
Chrysene	99U	ug/kg
Retene	99U	ug/kg
4,6-Dinitro-2-methylph+	1300UJ	ug/kg
1,3-Dichlorobenzene	99U	ug/kg
2,6-Dinitrotoluene	250U	ug/kg
N-Nitroso-di-n-Propyla+	99U	ug/kg
4-Chlorophenyl-phenyle+	99UJ	ug/kg
BIS(2OCHLOROISOPROPYL)+	99U	ug/kg
Surrog: 2-Fluorobiphen+	60	% Recov
Surrog: 2-Fluorophenol	12	% Recov
Surrog: D14-Terphenyl	78	% Recov
PYRENE-D10 (SS)	75	% Recov
Surrog: D5-Nitrobenzene	52	% Recov
Surrog: D5-Phenol	18	% Recov

Tent Ident - B/N/Aci Blank #2	Sediment Result	Units
UNKNOWN COMPOUND	420NJ*	ug/kg
ETHANE, 1,1,2,2-TETRAC+	110NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	4500NJ*	ug/kg
3-PENTEN-2-ONE, 4-METH+	6600NJ*	ug/kg
2,5-HEPTADIEN-4-ONE, 2+	89NJ*	ug/kg
HEXANEDIOIC ACID, MONO+	66NJ*	ug/kg
UNKNOWN COMPOUND 1	790NJ*	ug/kg
UNKNOWN COMPOUND 2	31NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	350NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Blank ID: BS2247

B/N/Acid Scan Blank #3	Sediment Result	Units
Benzo(a)pyrene	120U	ug/kg
2,4-Dinitrophenol	1600UJ	ug/kg
Dibenzo(a,h)anthracene	310U	ug/kg
Benzo(a)anthracene	120U	ug/kg
4-Chloro-3-Methylphenol	630UJ	ug/kg
Benzoic acid	1600UJ	ug/kg
Hexachloroethane	120U	ug/kg
Hexachlorocyclopentadi+	630U	ug/kg
Isophorone	120U	ug/kg
Acenaphthene	120U	ug/kg
Diethylphthalate	6J*	ug/kg
Di-n-Butylphthalate	270 *	ug/kg
Phenanthrene	120U	ug/kg
Butylbenzylphthalate	11J*	ug/kg
N-Nitrosodiphenylamine	1600U	ug/kg
Fluorene	120U	ug/kg
Carbazole	630UJ	ug/kg
Hexachlorobutadiene	310U	ug/kg
Pentachlorophenol	630UJ	ug/kg
2,4,6-Trichlorophenol	310UJ	ug/kg
2-Nitroaniline	310U	ug/kg
2-Nitrophenol	310U	ug/kg
Naphthalene, 1-Methyl-	120U	ug/kg
Naphthalene	120U	ug/kg
2-Methylnaphthalene	120U	ug/kg
2-Chloronaphthalene	120U	ug/kg
3,3'-Dichlorobenzidine	3100UJ	ug/kg
2-Methylphenol	120UJ	ug/kg
1,2-Dichlorobenzene	120U	ug/kg
o-Chlorophenol (2-Chlo+	120UJ	ug/kg
2,4,5-Trichlorophenol	620UJ	ug/kg
Nitrobenzene	120UJ	ug/kg
3-Nitroaniline	1600UJ	ug/kg
4-Nitroaniline	1600U	ug/kg
4-Nitrophenol	1600UJ	ug/kg
Benzyl Alcohol	REJ	ug/kg
4-Bromophenyl-phenylet+	120U	ug/kg
2,4-Dimethylphenol	120U	ug/kg
4-Methylphenol	120UJ	ug/kg
1,4-Dichlorobenzene	120U	ug/kg
4-Chloroaniline	1600U	ug/kg
Phenol	82J*	ug/kg
bis(2-Chloroethyl)Ether	120U	ug/kg
bis(2-Chloroethoxy)Met+	120U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	820 *	ug/kg

B/N/Acid Scan *** Continued *** Blank #3	Sediment Result	Units
Di-n-Octyl Phthalate	59J*	ug/kg
Hexachlorobenzene	120U	ug/kg
Anthracene	120U	ug/kg
1,2,4-Trichlorobenzene	120U	ug/kg
2,4-Dichlorophenol	120U	ug/kg
2,4-Dinitrotoluene	310U	ug/kg
Pyrene	120U	ug/kg
Dimethylphthalate	120U	ug/kg
Dibenzofuran	120U	ug/kg
Benzo(ghi)perylene	120UJ	ug/kg
Indeno(1,2,3-cd)pyrene	120U	ug/kg
Benzo(b)fluoranthene	120U	ug/kg
Fluoranthene	120U	ug/kg
Benzo(k)fluoranthene	120U	ug/kg
Acenaphthylene	120U	ug/kg
Chrysene	120U	ug/kg
Retene	120U	ug/kg
4,6-Dinitro-2-methylph+	1600UJ	ug/kg
1,3-Dichlorobenzene	120U	ug/kg
2,6-Dinitrotoluene	310U	ug/kg
N-Nitroso-di-n-Propyla+	120U	ug/kg
4-Chlorophenyl-phenyle+	120U	ug/kg
BIS(2OCHLOROISOPROPYL)+	120U	ug/kg
Surrog: 2-Fluorobiphen+	70	% Recov
Surrog: 2-Fluorophanol	49	% Recov
Surrog: D14-Terphenyl	81	% Recov
PYRENE-D10 (SS)	66	% Recov
Surrog: D5-Nitrobenzene	34	% Recov
Surrog: D5-Phenol	52	% Recov

Tent Ident - B/N/Aci Blank #3	Sediment Result	Units
HEXANEDIOIC ACID, BIS(+	10000NJ*	ug/kg
Decanoic Acid, Methyl +	49NJ*	ug/kg
UNKNOWN COMPOUND 1	860NJ*	ug/kg
UNKNOWN COMPOUND 2	490NJ*	ug/kg
UNKNOWN COMPOUND 3	110NJ*	ug/kg
1,2-BENZENEDICARBOXYLI+	100NJ*	ug/kg
1,2-BENZENEDICARBOXYLI+	2400NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU22

Blank ID: BS2247D

B/N/Acid Scan Blank #4	Sediment Result	Units
Benzo(a)pyrene	120U	ug/kg
2,4-Dinitrophenol	1600UJ	ug/kg
Dibenzo(a,h)anthracene	31DU	ug/kg
Benzo(a)anthracene	120U	ug/kg
4-Chloro-3-Methylphenol	630UJ	ug/kg
Benzoic acid	1600UJ	ug/kg
Hexachloroethane	120U	ug/kg
Hexachlorocyclopentadi+	630U	ug/kg
Isophorone	120U	ug/kg
Acenaphthene	120U	ug/kg
Diethylphthalate	7J*	ug/kg
Di-n-Butylphthalate	910 *	ug/kg
Phenanthrene	120U	ug/kg
Butylbenzylphthalate	9J*	ug/kg
N-Nitrosodiphenylamine	1600U	ug/kg
Fluorene	120U	ug/kg
Carbazole	630UJ	ug/kg
Hexachlorobutadiene	310U	ug/kg
Pentachlorophenol	630UJ	ug/kg
2,4,6-Trichlorophenol	310UJ	ug/kg
2-Nitroaniline	310U	ug/kg
2-Nitrophenol	310U	ug/kg
Naphthalene, 1-Methyl-	120U	ug/kg
Naphthalene	120U	ug/kg
'-Methylnaphthalene	120U	ug/kg
2-Chloronaphthalene	120U	ug/kg
3,3'-Dichlorobenzidine	3100UJ	ug/kg
2-Methylphenol	120UJ	ug/kg
1,2-Dichlorobenzene	120U	ug/kg
o-Chlorophenol (2-Chlo+	120UJ	ug/kg
2,4,5-Trichlorophenol	620UJ	ug/kg
Nitrobenzene	120UJ	ug/kg
3-Nitroaniline	1600UJ	ug/kg
4-Nitroaniline	1600U	ug/kg
4-Nitrophenol	1600UJ	ug/kg
Benzyl Alcohol	REJ	ug/kg
4-Bromophenyl-phenylet+	120U	ug/kg
2,4-Dimethylphenol	120U	ug/kg
4-Methylphenol	120UJ	ug/kg
1,4-Dichlorobenzene	120U	ug/kg
4-Chloroaniline	1600U	ug/kg
Phenol	58J*	ug/kg
bis(2-Chloroethyl)Ether	120U	ug/kg
bis(2-Chloroethoxy)Met+	120U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	5200 *	ug/kg

B/N/Acid Scan *** Continued *** Blank #4	Sediment Result	Units
Di-n-Octyl Phthalate	120UJ	ug/kg
Hexachlorobenzene	120U	ug/kg
Anthracene	120U	ug/kg
1,2,4-Trichlorobenzene	120U	ug/kg
2,4-Dichlorophenol	120U	ug/kg
2,4-Dinitrotoluene	310U	ug/kg
Pyrene	120U	ug/kg
Dimethylphthalate	120U	ug/kg
Dibenzofuran	120U	ug/kg
Benzo(ghi)perylene	120UJ	ug/kg
Indeno(1,2,3-cd)pyrene	120U	ug/kg
Benzo(b)fluoranthene	120U	ug/kg
Fluoranthene	120U	ug/kg
Benzo(k)fluoranthene	120U	ug/kg
Acenaphthylene	120U	ug/kg
Chrysene	120U	ug/kg
Retene	120U	ug/kg
4,6-Dinitro-2-methylph+	1600UJ	ug/kg
1,3-Dichlorobenzene	120U	ug/kg
2,6-Dinitrotoluene	310U	ug/kg
N-Nitroso-di-n-Propyla+	120U	ug/kg
4-Chlorophenyl-phenyle+	120U	ug/kg
BIS(2OCHLOROISOPROPYL)+	120U	ug/kg
Surrog: 2-Fluorobiphen+	54	% Recov
Surrog: 2-Fluorophenol	26	% Recov
Surrog: D14-Terphenyl	78	% Recov
PYRENE-D10 (SS)	79	% Recov
Surrog: D5-Nitrobenzene	62	% Recov
Surrog: D5-Phenol	32	% Recov

Tent Ident - B/N/Aci Blank #4	Sediment Result	Units
ETHANE, 1,1,2,2-TETRAC+	290NJ*	ug/kg
HEXANEDIOIC ACID, BIS(+	1200NJ*	ug/kg
UNKNOWN COMPOUND 1	970NJ*	ug/kg
UNKNOWN COMPOUND 2	2800NJ*	ug/kg
UNKNOWN COMPOUND 3	440NJ*	ug/kg
UNKNOWN COMPOUND 4	140NJ*	ug/kg
UNKNOWN COMPOUND 5	82NJ*	ug/kg
1,2-BENZENEDICARBOXYLI+	280NJ*	ug/kg

(Sample Complete)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 BEACH DR. EAST
PORT ORCHARD, WASHINGTON 98366

DCL#:62760.05.60.218 1992
FILE NO. 15.61
CC:
PM DPM SM X C/SM FILE X

December 2, 1992

MEMORANDUM

SUBJECT: Report of Data Validation for the Avery Railroad Investigation, VOA analysis of samples 92352358, 92352359, 92352360, 92352361, 92352362, 92352363, 92352364, 92352365, 92352366, 92352367, 92352368, 92352369, 92352370, 92352371, 92352372, 92352373, 92352374, 92352375, 92352376 and 92352377.

FROM: Joe Blazevich, Program Manager
Environmental Chemistry Program JMB

TO: Monica Rolluda, Project Officer
Avery Railroad Investigation

The following is a QA data review of the VOA analysis of samples collected for the Avery Railroad Investigation and analyzed at the Manchester Laboratory. This review covers samples.

92352358	92352359	92352360	92352361	92352362
92352363	92352364	92352365	92352366	92352367
92352368	92352369	92352370	92352371	92352372
92352373	92352374	92352375	92352376	92352377

The project code for these samples is TEC-575AB. The account number is TFA10PUZZ.

Data Qualification

The following comments refer to laboratory performance in meeting quality control specifications outlined in the CLP Statement of Work, Organic Analysis, revision 1/91.

I. Holding Times: Acceptable.

The samples were held seven days or less between collection and analysis. No data qualifiers were required on the basis of holding time data.

II. GC/MS Tuning and Performance: Acceptable

The tuning summary agreed with the raw data. All bromofluorobenzene ion abundance criteria were met. The analyses were preceded by a tune less than 12 hours prior to analysis. No data qualifiers were required on the basis of tuning data.

Printed on Recycled Paper

III. Initial Calibration: Acceptable

An extended seven point calibration curve was constructed on 5/14/92 for most analytes prior to analysis of the sample set. The calculation of the response factors was checked and the calculation method was correct. All response factors were over 0.05 and the %RSD for all analytes except dichlorodifluoromethane were 30% or less. The qualifier J or UJ was added to all results for this analyte. No additional data qualifiers were required based on the initial calibration curve.

IV. Continuing Calibration: Acceptable

9/01/92 Samples 92352360, 92352361, 92352363, 92352364, 92352365, and Blank ABS2245.

The response factors for all target analytes were above 0.05. Eight analytes had a %diff. value greater than the 30% maximum. Results for these analytes, dichlorodifluoromethane, 1,2-dibromo-3-chlorobenzene, 1,2,4- and 1,3,5-trimethylbenzene, sec-butylbenzene, p-isopropyl benzene, butylbenzene and hexachlorobutadiene, were assigned the data qualifier J or UJ. No additional data qualifiers are required on the basis of the continuing standard.

9/02/92 Samples 92352358, 92352359, 92352366, 92352367, 92352369, 92352369A and Blank ABS2246.

The response factors for all target analytes were above 0.05. Fourteen analytes had a %diff. value greater than the 30% maximum. Results for these analytes, dichlorodifluoromethane, chloromethane, 1,1-dichloroethane, 2,2-dichloropropane, chloroethane, 1,2-dichloroethane, bromochloromethane, chloroform, 1,1,1-trichloroethane, 1,1-dichloropropene, carbon tetrachloride, 1,2,5-trimethylbenzene, trichlorofluoromethane and trans-1,3-dichloropropene, were assigned the data qualifier J or UJ. No additional data qualifiers are required on the basis of the continuing standard.

9/03/92 Samples 92352368, 92352371, 92352372, 92352373, 92352374, 92352375 and Blank ABS2247.

The response factors for all target analytes were above 0.05. Twelve analytes had a %diff. value greater than the 30% maximum. Results for these analytes, dichlorodifluoromethane, chloromethane, chloroethane, 2,2-dichloropropane, vinyl chloride, trichlorofluoromethane, 1,2-dichloroethane, bromodichloromethane, chloroform, 1,1,1-trichloroethane, 1,1-dichloropropene and carbon tetrachloride, were assigned the data qualifier J or UJ. No additional data qualifiers are required on the basis of the continuing standard.

9/04/92 Samples 92352362, 92352368A, 92352370, 92352376, 92352377, Matrix Spikes 92352373Y, 923523732 and Blank ABS2248.

The response factors for all target analytes were above 0.05. Twelve analytes had a %diff. value greater than the 30% maximum. Results for these analytes, dichlorodifluoromethane, chloromethane, chloroethane, vinyl chloride, acetone, trichlorofluoromethane, 1,2-dichloroethane, bromodichloromethane, 1,3,5-trimethylbenzene, 1,1,1-trichloroethane, carbon tetrachloride and 1,1-dichloropropene, were assigned the data qualifier J or UJ. No additional data qualifiers are required on the basis of the continuing standard.

V. Blanks: Acceptable

Blanks were analyzed prior to the analysis of samples and matrix spikes. Although some target analytes were detected in the blanks, most were far below the reporting limit. Analytes detected in the samples were reported without qualification if the sample result area integration exceeded ten times that of the blank for common VOA contaminates (e.g. acetone, 2-butanone and methylene chloride) or five times that of the blank for the other target analytes. If not detected in the blank, the analyte was reported without qualification if detected in the sample or with the appropriate quantitation limit and the qualifier U or UJ if not detected in the sample.

VI. Surrogates: Acceptable

All surrogate recoveries were within specification for all blanks, matrix spikes and samples except for the following samples. Samples and matrix spike samples 92352360, 92352361, 92352363, 92352364, 92352365, 92352368, 92352371, 92352373Y, 923523732, 92352375 and 92352377 gave high values for surrogate 1,2-dichloroethane d4. Samples 92353468 and 92352369 gave high recoveries for surrogate para-bromofluorobenzene. All positive values for these samples were assigned the qualifier J. No additional data qualifiers were assigned based on surrogate recovery data.

VII. Matrix Spike and Matrix Spike Duplicate (MS/MSD): Acceptable

All MS and MSD recoveries were within CLP and Region Ten acceptance and percent diff. ranges except the recovery of one or both spike samples and/or the percent diff. for vinyl chloride, carbon disulfide, chloroethane, bromoform, bromomethane, chloromethane, 2-butanone, bromochloromethane, 4-methyl-2-pentanone, 2-hexanone, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, trichlorofluoromethane and 1,2,3-trichlorobenzene fell outside the 50-150% and/or 50% Region Ten acceptance ranges. Similarly the percent diff for CLP analyte 1,1-dichloroethene

fell outside the required range. The qualifier J was assigned to these analytes for sample 92352373. All other recoveries or %diff. were acceptable. No additional data qualifiers were required based on matrix spike recoveries.

VIII. Internal Standards Performance: Acceptable

The retention time variations of all internal standards were within 30 seconds of the daily standard which is acceptable. The %area of all internal standards fell within the specified 50% to 200% of the daily standard except the following. Internal standard number 2 was low for samples 92352365, 92352368 and 92352377 and internal standard number 3 was low for samples 92352361, 92352363, 92352364, 92352365, 92352368, 92352373, 92352374, 92352375, 92352377 as well as matrix spikes 92352373Y and 92352373Z. All analytes associated with these internal standards were given the J or UJ qualifier. No additional data qualifiers were required on the basis of internal standards data.

IX. TCL Compound Identification: Acceptable

All TCL compounds' relative retention times were within 0.06 units of the related standards' in the continuing calibration standard or were judged acceptable. All criteria were met for mass spectral ion matching and abundance matching or were judged acceptable.

X. Compound Quantitation: Acceptable

Compound quantitation was evaluated correctly. The appropriate internal standards were used. The correct quantitation ions and relative response factors were used. Some analytes were detected in this sample set at levels below the lowest calibration concentration of the initial calibration curve. Since the Practical Quantitation Limit is based on this lowest initial calibration standard, these values were assigned the J qualifier. No additional qualifiers are required on the basis of compound quantitation.

XI. Tentatively Identified Compounds: Acceptable

The spectra for all tentatively identified compounds met criteria for ion matching and ion abundance matching or were judged acceptable.

Overall Assessment for the Case

The usefulness of the data is based on the criteria outlined in "Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses, (revision 6/91)."

All of the requirements for data qualifiers from the preceding sections were accumulated. Each sample data summary sheet and each compound were checked for positive or negative

results. From this the overall need for data qualifiers for each analysis was determined. In cases where more than one of the preceding sections required data qualifiers, the most restrictive qualifier has been added to the data.

In general, all unqualified data can be used without restriction. The usefulness of qualified data should be treated according to the severity of the qualifier. Each qualifier has been defined below. Should questions arise regarding the qualification of data and its relation to the usefulness, the reader is encouraged to contact the Region Ten Laboratory.

DATA QUALIFIERS

U	-	The analyte was not detected at or above the reported result.
J	-	The analyte was positively identified. The associated numerical result is an estimate.
EXP	-	The result is equal to the number before EXP times 10 to the power of the number after EXP. As an example 3EXP6 equals 3×10^6.
REJ	-	The data are unusable for all purposes.
N	-	There is evidence the analyte is present in this sample.
NJ	-	There is evidence that the analyte is present. The associated numerical result is an estimate.
UJ	-	The analyte was not detected at or above the reported estimated result. The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.
NAF	-	Not analyzed for.
*	-	The analyte was present in the sample. (Visual aid to locate detected compounds on the report sheet.)

ENVIRONMENTAL SERVICE ASSISTANCE TEAMS - ZONE 2

ICF Technology Inc.
ManTech Environmental

RECEIVED
OCT - 9 1992
URS CONSULTANTS

ESAT Region 10
ICF Technology Inc.
7411 Beach Drive East
Port Orchard, WA 98366
Phone (206) 871-0748
FAX (206) 895-4357

DCL#: 62760.05.__.129 1992
FILE NO. 15 b1
CC:
PM__DPM__SM X C/SM__FILE X

MEMORANDUM

DATE: October 1, 1992

TO: Monica Rolluda, Site Assessment Manager, USEPA, Region 10
Isa Chamberlain, Task Monitor, USEPA, Region 10 Received. 10/02/92.
Gerald Muth, RPO, USEPA, Region 10

THRU: Barry Pepich, ETM, ESAT, Region 10

FROM: John Alexander, Chemist, ESAT, Region 10

SUBJ: Metals Analysis for Avery Railroad Dump and Roundhouse Water Samples 92352351 - 54

cc: Bruce Woods, QA Office, USEPA, Region 10
Kara Steward, URS Consultants, Seattle, WA

TID No.: 10-9203-045
Doc. No.: ESAT-10A-5497

The following is a quality assurance data review of the trace metal analysis for Avery Railroad Dump and Roundhouse Water Samples 92352351 - 54. All metals analyses were performed at the Manchester Laboratory.

The project code for these samples is TEC-575A. The superfund account code is 2TFA10PUZZ.

I. .Timeliness

Samples 92352351-54 were collected on 8/26/92 and received on 8/28/92. Mercury analysis was completed at the laboratory on 9/01/92. The trace metals analysis was completed by 9/25/92.

Suggested holding times were not exceeded. Qualification is not necessary.

II. Sample Preparation

Samples 92352351-54 were prepared on 9/01/92 for ICP-AES and GFAA analysis using EPA Method 3010. The samples were prepared for mercury analysis on 8/31/92 using Method EP1-245.1. Sample 92352354 contained sediment and therefore separate MS and MSD samples were prepared for mercury analysis.

III. Calibration

The samples were analyzed by ICP-AES (Inductively Coupled Argon Plasma -Atomic Emission Spectroscopy) on 9/03/92. The instrument was standardized with a blank and a series of standards.

The samples were analyzed for arsenic, lead, selenium, and thallium by GFAA (Graphite Furnace Atomic Absorption Spectroscopy) on 9/18/92 through 9/25/92. The instrument was calibrated each day with a blank and four standards. Each calibration curve was linear with a correlation coefficient (r) greater than the minimum requirement of 0.995.

The samples were analyzed by CVAA (Cold Vapor Atomic Absorption Spectroscopy) for mercury on 9/01/92. A blank and 5 standards were used to calibrate the analytical instrument. The curve was linear with a correlation coefficient of 0.998.

IV. Reference Control Samples

Control samples are required before and after sample analysis and after every 10 samples during analysis. The acceptance range for ICP-AES and GFAA analyses for each element is 90 - 110% of the known value in the control sample. The acceptance range for CVAA is 80 - 120%.

All reference control parameters were verified and found to be within range on each day of analysis.

V. Blanks

Procedural blanks are prepared with each group of samples digested to detect possible introduction of contamination. If analytes are found in any of the associated procedural blanks the concentration in the samples must be at least ten times (10X) the quantity observed in the blank. If the sample result fails this criteria the sample result is qualified (B).

Aluminum, potassium, and zinc were found in the procedural blank for these samples. Aluminum and potassium results in samples 92352351-53 were less than 10X the quantity observed in the blank and therefore the results were qualified (B). The zinc result in sample 92352351 failed this criteria and the result was qualified (B). Calcium, magnesium, and sodium were also found at background levels but the concentrations in the samples far exceeded minimum criteria. Further qualification was not necessary.

VI. ICP-AES Interference Check Sample

The interference check sample (ICS) is analyzed by ICP-AES to verify interelement and background correction factors. Analysis is required at the beginning and end of each analytical sequence. The acceptance criteria for the ICS is 80% - 120%.

All parameters were within limits on the analysis dates, 9/03/92. No qualification is necessary.

VII. Matrix Spike Analysis

Matrix spike sample analyses are performed to provide information about the effect of the sample matrix on digestion and measurement methods. Matrix spike recoveries are required to be within 75% - 125% of the spike after digestion, analytical post spikes (spiked after digestion) are required to be within 85% - 115% of the spike.

ICP-AES and GFAA matrix spike analysis was performed on sample 92352353. All MS/MSD recoveries were within limits for this sample.

Mercury matrix spike analysis was performed on sample 92352352 and 92352354. Matrix spike recoveries were within limits in sample 92352352 but slightly low in sample 92352354 (76%, 71%). The result for 92352354 was qualified (N) to notify the data user of the low spike recovery. In this case, the result was reported at the detection level (0.2 U N) in parts per billion.

All of the remaining spiked values were within the specified limits therefore no further qualification was necessary.

VIII. Furnace Atomic Absorption QC

A post spike is performed on each sample analyzed by GFAA to help determine if interferences are affecting the analyte signal. The post spike should fall within 85% to 115% of the expected value. If a post spike is outside the accepted limits, and the sample concentration is greater than 50% of the post spike added, the sample is analyzed by the Method of Standard Additions (MSA). When MSA is used to quantitate the sample result, the (S) qualifier is attached if the corresponding curve has a correlation coefficient greater than 0.995, a (+) qualifier is attached if the curve is less than 0.995. If a post spike is outside the accepted limits, and the sample concentration is less than 50% of the post spike added, the sample result is reported and a (W) qualifier is attached.

Selenium post spikes were within the acceptable range except for sample 92352354 (72%) and 92352354 DUP (67%). This sample contained significant

concentrations of analytes and therefore some interferences may be present which would cause suppression in the analyte signal. The samples were qualified (W) to notify the data user of the low post spike recoveries.

Arsenic post spike recoveries were also low in samples 92352354 and 92352354 DUP. The concentration of arsenic in these samples was high enough that a 1:2 dilution was made and post spikes were analyzed. The post spike recoveries in the 1:2 dilutions were 82.8% in 92352354 and 85.6% in 92352354 DUP. The Method of Standard Additions was used to report a result for 92352354 and qualified (S). The duplicate sample was reported using the 1:2 dilution.

IX. ICP-AES Serial Dilution

Sample 92352354 was analyzed for serial dilution. This sample was chosen since it was the only water sample with any significant concentration of analytes. The sample was diluted 1:5 and compared to the result of the undiluted sample. If the analyte concentration is 50 times the instrument detection limit in the original sample, the dilution should then agree within 10% of the original determination, after correction for dilution. Those that exceed 10% difference are qualified (E), indicating chemical or physical interferences may be present.

Copper was slightly outside the acceptable limit (10.7%) and just above the minimum criteria of 50X the IDL. In this case, there is not clear justification to qualify this result in the data.

X. Duplicate Analysis

Duplicate analysis of a sample is performed to determine the precision of the digestion and analytical methods. The results for each sample should compare within 20% relative difference.

Sample 92352354 was run in duplicate. All results were within the acceptable range for duplicate analysis criteria. The matrix spike, matrix spike duplicate also demonstrated good comparability. No qualification was necessary based on this criteria.

XI. Detection Limits

Sample results which fall below the instrument detection limit (IDL) are reported at the instrument detection limit and qualified (U). Any sample result falling between the detection limit and the quantitation limit are qualified as an estimate (P). This was implemented to notify the data user that the element was detected, but not within the limits of precision of 10% relative standard deviation.

XII. Data Summary

The results reported for the Avery Railroad Dump and Roundhouse Water Samples 92352351 - 54 are of excellent quality. Results below the instrument detection limit were qualified (U). Results below the quantitation limit were qualified (P).

The remaining results remained unqualified with the following exceptions:

Aluminum and potassium results were qualified (B) for samples 92352351, 92352352, and 92352353. Zinc was qualified (B) for sample 92352351. The (B) qualifier denotes possible bias due to contamination in the preparation or analysis procedure.

Selenium results for samples 92352354 and 92352354 DUP were qualified (W) due to low post spike recoveries. This indicates a possible interference in the sample which may cause a suppression in the analyte signal.

The arsenic result for sample 92352354 was reported using Method of Standard Additions. When MSA is used, the result is qualified (S).

The mercury result for sample 92352354 was qualified (N) due to a slightly low matrix spike recovery. In this case, one spike recovery was within limits (76%) but the second was low (71%) and therefore the result was qualified as a precaution.

USEPA Region 10 Laboratory

Below are the definitions for the qualifiers used in the metals area when qualifying data from metals analysis.

DATA QUALIFIERS

U	-	Element was analyzed but not detected. The associated numerical value is the instrument detection limit/method detection limit.
P	-	The analyte was detected above the Instrument Detection Limit, but not quantified within expected limits of precision. The laboratory has established minimum quantitation limits having a relative standard deviation of no more than 10%
E	-	The reported value is an estimate because of the presence of interference. An explanatory note is included with the report.
B	-	Analyte is found in the analytical blank as well as the sample indicating possible/probable blank contamination. (B) accompanies those analytical results within 10 (10X) times the Instrument Detection Limit for the analyte of interest.
N	-	Spiked sample recovery not within control limits.
NAR	-	There is no analysis result for this analyte.
NA	-	Not Applicable/Not Required.
S	-	Sample was analyzed by method of standard additions.
+	-	Sample was analyzed by method of standard additions and the correlation coefficient was less than 0.995.
*	-	The analyte was present in the sample.
W	-	Post spike out of specified range, and sample was less than 50% the spike added.

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352351 Description: WAW01 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 08:37

Metals - Specified		Water-Total Result	Units
Arsenic	As-Total	1.7P*	ug/l
Lead	Pb-Total	1.2P*	ug/l
Thallium	Tl-Total	2.5U	ug/l
Selenium	Se-Total	2.0U	ug/l
Mercury	Hg-Total	.2U	ug/l

Metals - ICP Scan		Water-Total Result	Units
Arsenic	As-Total	31.U	ug/l
Barium	Ba-Total	12.7 *	ug/l
Beryllium	Be-Total	1.0U	ug/l
Cadmium	Cd-Total	2.0U	ug/l
Chromium	Cr-Total	5.1U	ug/l
Cobalt	Co-Total	3.1U	ug/l
Copper	Cu-Total	5.5P*	ug/l
Iron	Fe-Total	12.P*	ug/l
Lead	Pb-Total	20.U	ug/l
Mangnese	Mn-Total	1.7P*	ug/l
Nickel	Ni-Total	10.U	ug/l
Silver	Ag-Total	3.1U	ug/l
Vanadium	V -Total	2.0U	ug/l
Zinc	Zn-Total	7.2PB*	ug/l
Antimony	Sb-Total	31.U	ug/l
Aluminum	Al-Total	61.PB*	ug/l
Calcium	Ca-Total	30200 *	ug/l
Mgnsium	Mg-Total	6370 *	ug/l
Potsaium	K -Total	1800B*	ug/l
Sodium	Na-Total	4700 *	ug/l

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352352 Description: WSW01 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 09:15

Metals - Specified		Water-Total Result		Units
Arsenic	As-Total	4.7P	*	ug/l
Lead	Pb-Total	1.2P	*	ug/l
Thallium	Tl-Total	2.5U		ug/l
Selenium	Se-Total	2.0U		ug/l
Mercury	Hg-Total	.2U		ug/l

Metals - Specified Matrix Spike #1		Water-Total Result	Units
Mercury	Hg-Total	114	% Recov

Metals - Specified Matrix Spike #2		Water-Total Result	Units
Mercury	Hg-Total	112	% Recov

Metals - Specified Duplicate #1		Water-Total Result	Units
Mercury	Hg-Total	.2U	ug/l

Metals - ICP Scan		Water-Total Result		Units
Arsenic	As-Total	30.U		ug/l
Barium	Ba-Total	10.7	*	ug/l
Beryllium	Be-Total	1.0U		ug/l
Cadmium	Cd-Total	2.0U		ug/l
Chromium	Cr-Total	5.0U		ug/l
Cobalt	Co-Total	3.0U		ug/l
Copper	Cu-Total	4.0P	*	ug/l
Iron	Fe-Total	13.P	*	ug/l
Lead	Pb-Total	20.U		ug/l
Mangnese	Mn-Total	1.0U		ug/l
Nickel	Ni-Total	10.U		ug/l
Silver	Ag-Total	3.0U		ug/l
Vanadium	V -Total	2.0U		ug/l
Zinc	Zn-Total	82.9	*	ug/l
Antimony	Sb-Total	30.U		ug/l
Aluminum	Al-Total	65.PB	*	ug/l
Calcium	Ca-Total	37600	*	ug/l

Metals - ICP Scan *** Continued ***		Water-Total Result		Units
Mgnsium	Mg-Total	7700	*	ug/l
Potassium	K -Total	2200B	*	ug/l
Sodium	Na-Total	4220	*	ug/l

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: RA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352353 Description: WSW02 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 09:15

Metals - Specified		Water-Total Result	Units
Arsenic	As-Total	4.7P*	ug/l
Lead	Pb-Total	1.4P*	ug/l
Thallium	Tl-Total	2.5U	ug/l
Selenium	Se-Total	2.0U	ug/l
Mercury	Hg-Total	.2U	ug/l

Metals - Specified Matrix Spike #1		Water-Total Result	Units
Arsenic	As-Total	110	% Recov
Lead	Pb-Total	104	% Recov
Thallium	Tl-Total	110	% Recov
Selenium	Se-Total	108	% Recov

Metals - Specified Matrix Spike #2		Water-Total Result	Units
Arsenic	As-Total	110	% Recov
Lead	Pb-Total	104	% Recov
Thallium	Tl-Total	110	% Recov
Selenium	Se-Total	106	% Recov

Metals - ICP Scan		Water-Total Result	Units
Arsenic	As-Total	30.U	ug/l
Barium	Ba-Total	10.9 *	ug/l
Beryllium	Be-Total	1.0U	ug/l
Cadmium	Cd-Total	2.0U	ug/l
Chromium	Cr-Total	5.0U	ug/l
Cobalt	Co-Total	3.0U	ug/l
Copper	Cu-Total	3.0U	ug/l
Iron	Fe-Total	13.P*	ug/l
Lead	Pb-Total	20.U	ug/l
Manganese	Mn-Total	1.0U	ug/l
Nickel	Ni-Total	10.U	ug/l
Silver	Ag-Total	3.0U	ug/l
Vanadium	V -Total	2.0U	ug/l
Zinc	Zn-Total	85.7 *	ug/l
Antimony	Sb-Total	30.U	ug/l
Aluminum	Al-Total	67.PB*	ug/l
Calcium	Ca-Total	37600 *	ug/l
Magnesium	Mg-Total	7720 *	ug/l
Potassium	K -Total	2210B*	ug/l
Sodium	Na-Total	4180 *	ug/l

Metals - ICP Scan Matrix Spike #1		Water-Total Result	Units
Arsenic	As-Total	96.0	% Recov
Barium	Ba-Total	100.0	% Recov
Beryllium	Be-Total	114.3	% Recov
Cadmium	Cd-Total	99.1	% Recov
Chromium	Cr-Total	98.6	% Recov
Cobalt	Co-Total	97.2	% Recov
Copper	Cu-Total	102.5	% Recov
Iron	Fe-Total	99.4	% Recov
Lead	Pb-Total	98.3	% Recov
Manganese	Mn-Total	100.2	% Recov
Nickel	Ni-Total	101.9	% Recov
Silver	Ag-Total	92.0	% Recov
Vanadium	V -Total	98.6	% Recov
Zinc	Zn-Total	104.8	% Recov
Antimony	Sb-Total	96.7	% Recov
Aluminum	Al-Total	105.9	% Recov
Calcium	Ca-Total	NAP	% Recov
Magnesium	Mg-Total	NAP	% Recov
Potassium	K -Total	NAP	% Recov
Sodium	Na-Total	NAP	% Recov

Metals - ICP Scan Matrix Spike #2		Water-Total Result	Units
Arsenic	As-Total	96.7	% Recov
Barium	Ba-Total	99.8	% Recov
Beryllium	Be-Total	114.6	% Recov
Cadmium	Cd-Total	105.5	% Recov
Chromium	Cr-Total	98.7	% Recov
Cobalt	Co-Total	98.1	% Recov
Copper	Cu-Total	102.7	% Recov
Iron	Fe-Total	99.9	% Recov
Lead	Pb-Total	98.5	% Recov
Manganese	Mn-Total	100.3	% Recov
Nickel	Ni-Total	101.6	% Recov
Silver	Ag-Total	92.2	% Recov
Vanadium	V -Total	98.6	% Recov
Zinc	Zn-Total	105.2	% Recov
Antimony	Sb-Total	97.2	% Recov
Aluminum	Al-Total	105.7	% Recov
Calcium	Ca-Total	NAP	% Recov
Magnesium	Mg-Total	NAP	% Recov
Potassium	K -Total	NAP	% Recov
Sodium	Na-Total	NAP	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352354 Description: WHC01 Source: Well (Test/Observation)

Begin Date: 92/08/26 10:20

Metals - Specified		Water-Total Result	Units
Arsenic	As-Total	102.S*	ug/l
Lead	Pb-Total	54.4 *	ug/l
Thallium	Tl-Total	2.5U	ug/l
Selenium	Se-Total	2.0U	ug/l
Mercury	Hg-Total	.2U	ug/l

Metals - Specified Matrix Spike #1		Water-Total Result	Units
Mercury	Hg-Total	76	% Recov

Metals - Specified Matrix Spike #2		Water-Total Result	Units
Mercury	Hg-Total	71	% Recov

Metals - Specified Duplicate #1		Water-Total Result	Units
Arsenic	As-Total	113. *	ug/l
Lead	Pb-Total	55.6 *	ug/l
Thallium	Tl-Total	2.5U	ug/l
Selenium	Se-Total	2.0UW	ug/l

Metals - Specified Duplicate #2		Water-Total Result	Units
Mercury	Hg-Total	.2UN	ug/l

Metals - ICP Scan		Water-Total Result	Units
Arsenic	As-Total	98.P*	ug/l
Barium	Ba-Total	272 *	ug/l
Beryllium	Be-Total	2.2P*	ug/l
Cadmium	Cd-Total	3.0P*	ug/l
Chromium	Cr-Total	29.2 *	ug/l
Cobalt	Co-Total	49.1 *	ug/l
Copper	Cu-Total	171 *	ug/l
Iron	Fe-Total	74200 *	ug/l

Metals - ICP Scan *** Continued ***		Water-Total Result	Units
Lead	Pb-Total	58.P*	ug/l
Mangnese	Mn-Total	4020 *	ug/l
Nickel	Ni-Total	69.P*	ug/l
Silver	Ag-Total	13.6 *	ug/l
Vanadium	V -Total	66.7 *	ug/l
Zinc	Zn-Total	717 *	ug/l
Antimony	Sb-Total	32.U	ug/l
Aluminum	Al-Total	27600 *	ug/l
Calcium	Ca-Total	63500 *	ug/l
Mgnesium	Mg-Total	30200 *	ug/l
Potasium	K -Total	8460 *	ug/l
Sodium	Na-Total	14800 *	ug/l

Metals - ICP Scan Duplicate #1		Water-Total Result	Units
Arsenic	As-Total	110P*	ug/l
Barium	Ba-Total	286 *	ug/l
Beryllium	Be-Total	2.2P*	ug/l
Cadmium	Cd-Total	3.6P*	ug/l
Chromium	Cr-Total	32.2 *	ug/l
Cobalt	Co-Total	52.7 *	ug/l
Copper	Cu-Total	189 *	ug/l
Iron	Fe-Total	78800 *	ug/l
Lead	Pb-Total	62.P*	ug/l
Mangnese	Mn-Total	4060 *	ug/l
Nickel	Ni-Total	84.7 *	ug/l
Silver	Ag-Total	14.4 *	ug/l
Vanadium	V -Total	70.3 *	ug/l
Zinc	Zn-Total	734 *	ug/l
Antimony	Sb-Total	31.U	ug/l
Aluminum	Al-Total	31100 *	ug/l
Calcium	Ca-Total	63900 *	ug/l
Mgnesium	Mg-Total	32600 *	ug/l
Potasium	K -Total	9090 *	ug/l
Sodium	Na-Total	15000 *	ug/l

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: PA10PUZZ

Blank ID: BLANK

Metals - Specified Blank #1		Water-Total Result	Units
Mercury	Hg-Total	.20U	ug/l

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Blank ID: ESB920901

Metals - ICP Scan Blank #2		Water-Total Result	Units
Arsenic	As-Total	96.1	ug/l
Barium	Ba-Total	97.9	ug/l
Beryllium	Be-Total	111.5	ug/l
Cadmium	Cd-Total	103.2	ug/l
Chromium	Cr-Total	98.7	ug/l
Cobalt	Co-Total	99.0	ug/l
Copper	Cu-Total	104.4	ug/l
Iron	Fe-Total	98.0	ug/l
Lead	Pb-Total	99.5	ug/l
Manganese	Mn-Total	99.9	ug/l
Nickel	Ni-Total	100.9	ug/l
Silver	Ag-Total	93.4	ug/l
Vanadium	V -Total	97.8	ug/l
Zinc	Zn-Total	105.4	ug/l
Antimony	Sb-Total	96.7	ug/l
Aluminum	Al-Total	104.4	ug/l
Calcium	Ca-Total	NAF	ug/l
Magnesium	Mg-Total	NAF	ug/l
Potassium	K -Total	NAF	ug/l
Sodium	Na-Total	NAF	ug/l

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Blank ID: EW920901

Metals - Specified Blank #1		Water-Total Result	Units
Arsenic	As-Total	1.5U	ug/l
Lead	Pb-Total	1.0U	ug/l
Thallium	Tl-Total	2.5U	ug/l
Selenium	Se-Total	2.0UW	ug/l

Metals - ICP Scan Blank #1		Water-Total Result	Units
Arsenic	As-Total	31.U	ug/l
Barium	Ba-Total	1.0U	ug/l
Beryllium	Be-Total	1.0U	ug/l
Cadmium	Cd-Total	2.0U	ug/l
Chromium	Cr-Total	5.1U	ug/l
Cobalt	Co-Total	3.1U	ug/l
Copper	Cu-Total	3.1U	ug/l
Iron	Fe-Total	5.1U	ug/l
Lead	Pb-Total	20.U	ug/l
Mangnese	Mn-Total	1.0U	ug/l
Nickel	Ni-Total	10.U	ug/l
Silver	Ag-Total	3.1U	ug/l
Vanadium	V -Total	2.0U	ug/l
Zinc	Zn-Total	4.2P*	ug/l
Antimony	Sb-Total	31.U	ug/l
Aluminum	Al-Total	36.P*	ug/l
Calcium	Ca-Total	13.2 *	ug/l
Mgnsium	Mg-Total	3.1P*	ug/l
Potsaium	K -Total	600P*	ug/l
Sodium	Na-Total	99.7 *	ug/l

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352350 Description: WBW01 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 08:30

VOA - PP Scan (GCMS)	Water-Total Result	Units
Carbon Tetrachloride	1U	ug/l
Acetone	10J	ug/l
Chloroform	1U	ug/l
Benzene	1U	ug/l
1,1,1-Trichloroethane	1U	ug/l
Bromomethane	1U	ug/l
Chloromethane	10J	ug/l
Dibromomethane	1U	ug/l
Bromochloromethane	1U	ug/l
Chloroethane	1U	ug/l
Vinyl Chloride	1U	ug/l
Methylene Chloride	5U	ug/l
Carbon Disulfide	5U	ug/l
Bromoform	1U	ug/l
Bromodichloromethane	1U	ug/l
1,1-Dichloroethane	1U	ug/l
1,1-Dichloroethene	1U	ug/l
Trichlorofluoromethane	1U	ug/l
Methane, Dichlorodiflu+	0.7J*	ug/l
1,2-Dichloropropane	1U	ug/l
2-Butanone	5U	ug/l
1,1,2-Trichloroethane	1U	ug/l
Ethene, trichloro-	1U	ug/l
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l
1,2,3-Trichlorobenzene	1U	ug/l
Hexachlorobutadiene	1U	ug/l
Naphthalene	1U	ug/l
2-Chlorotoluene	1U	ug/l
1,2-Dichlorobenzene	1U	ug/l
1,2,4-Trimethylbenzene	1U	ug/l
1,2-Dibromo-3-chloropr+	5U	ug/l
1,2,3-Trichloropropane	1U	ug/l
Tert-Butylbenzene	1U	ug/l
Isopropylbenzene (Cume+	1U	ug/l
p-Isopropyltoluene	1U	ug/l
Ethylbenzene	1U	ug/l
BENZENE, ETHENYL-(STYR+	1U	ug/l
BENZENE, PROPYL-	1U	ug/l
Butylbenzene	1U	ug/l
4-Chlorotoluene	1U	ug/l
1,4-Dichlorobenzene	1U	ug/l
1,2-Dibromoethane (EDB)	1U	ug/l
1,2-Dichloroethene	1U	ug/l
4-Methyl-2-Pentanone(M+	1U	ug/l
1,3,5-Trimethylbenzene	1U	ug/l

VOA - PP Scan (GCMS) *** Continued ***	Water-Total Result	Units
Bromobenzene	1U	ug/l
Toluene	1U	ug/l
Chlorobenzene	1U	ug/l
1,2,4-Trichlorobenzene	1U	ug/l
Dibromochloromethane	1U	ug/l
Tetrachloroethene	1U	ug/l
Sec-Butylbenzene	1U	ug/l
1,3-Dichloropropane	1U	ug/l
Cis-1,2-Dichloroethene	1U	ug/l
trans-1,2-Dichloroethe+	1U	ug/l
1,3-Dichlorobenzene	1U	ug/l
1,1-Dichloropropene	1U	ug/l
2-Hexanone	1U	ug/l
2,2-Dichloropropane	1U	ug/l
Ethane, 1,1,1,2-Tetrac+	1U	ug/l
Total Xylenes	1U	ug/l
cis-1,3-Dichloropropene	1U	ug/l
trans-1,3-Dichloroprop+	1U	ug/l
p-Bromofluorobenzene	100	% Recov
D4-1,2-Dichlorobenzene	99	% Recov
d8-Toluene	104	% Recov
d4-1,2-Dichloroethane	103	% Recov

Tent Idant - VOA Sca	Water-Total Result	Units
1-PROPENE, 2-METHYL-	0.42NJ*	ug/l

(Sample Complete)

Final Report Sent to:
Monica Rolluda
Bruce Woods
Kara Steward

12/7/92 CRF

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352351 Description: WAW01 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 08:37

Metals - Specified		Water-Total Result	Units
Arsenic	As-Total	1.7P*	ug/l
Lead	Pb-Total	1.2P*	ug/l
Thallium	Tl-Total	2.5U	ug/l
Selenium	Se-Total	2.0U	ug/l
Mercury	Hg-Total	.2U	ug/l

Metals - ICP Scan		Water-Total Result	Units
Arsenic	As-Total	31.U	ug/l
Barium	Ba-Total	12.7 *	ug/l
Beryllium	Be-Total	1.0U	ug/l
Cadmium	Cd-Total	2.0U	ug/l
Chromium	Cr-Total	5.1U	ug/l
Cobalt	Co-Total	3.1U	ug/l
Copper	Cu-Total	5.5P*	ug/l
Iron	Fe-Total	12.P*	ug/l
Lead	Pb-Total	20.U	ug/l
Mangnese	Mn-Total	1.7P*	ug/l
Nickel	Ni-Total	10.U	ug/l
Silver	Ag-Total	3.1U	ug/l
Vanadium	V -Total	2.0U	ug/l
Zinc	Zn-Total	7.2PB*	ug/l
Antimony	Sb-Total	31.U	ug/l
Aluminum	Al-Total	61.PB*	ug/l
Calcium	Ca-Total	30200 *	ug/l
Mgnsium	Mg-Total	6370 *	ug/l
Potssium	K -Total	1800B*	ug/l
Sodium	Na-Total	4700 *	ug/l

VOA - PP Scan (GCMS)	Water-Total Result	Units
Carbon Tetrachloride	1U	ug/l
Acetone	5UJ	ug/l
Chloroform	1U	ug/l
Benzene	1U	ug/l
1,1,1-Trichloroethane	1U	ug/l
Bromomethane	1U	ug/l
Chloromethane	1UJ	ug/l
Dibromomethane	1U	ug/l
Bromochloromethane	1U	ug/l
Chloroethane	1U	ug/l

VOA - PP Scan (GCMS) *** Continued ***	Water-Total Result	Units
Vinyl Chloride	1U	ug/l
Methylene Chloride	5U	ug/l
Carbon Disulfide	5U	ug/l
Bromoform	1U	ug/l
Bromodichloromethane	1U	ug/l
1,1-Dichloroethane	1U	ug/l
1,1-Dichloroethene	1U	ug/l
Trichlorofluoromethane	1U	ug/l
Methane, Dichlorodiflu+	5U	ug/l
1,2-Dichloropropane	1U	ug/l
2-Butanone	5U	ug/l
1,1,2-Trichloroethane	1U	ug/l
Ethene, trichloro-	1U	ug/l
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l
1,2,3-Trichlorobenzene	1U	ug/l
Hexachlorobutadiene	1U	ug/l
Naphthalene	1U	ug/l
2-Chlorotoluene	1U	ug/l
1,2-Dichlorobenzene	1U	ug/l
1,2,4-Trimethylbenzene	1U	ug/l
1,2-Dibromo-3-chloropr+	5U	ug/l
1,2,3-Trichloropropane	1U	ug/l
Tert-Butylbenzene	1U	ug/l
Isopropylbenzene (Cume+	1U	ug/l
p-Isopropyltoluene	1U	ug/l
Ethylbenzene	1U	ug/l
BENZENE, ETHENYL-(STYR+	1U	ug/l
BENZENE, PROPYL-	1U	ug/l
Butylbenzene	1U	ug/l
4-Chlorotoluene	1U	ug/l
1,4-Dichlorobenzene	1U	ug/l
1,2-Dibromoethane (EDB)	1U	ug/l
1,2-Dichloroethane	1U	ug/l
4-Methyl-2-Pentanone(M+	1U	ug/l
1,3,5-Trimethylbenzene	1U	ug/l
Bromobenzene	1U	ug/l
Toluene	1U	ug/l
Chlorobenzene	1U	ug/l
1,2,4-Trichlorobenzene	1U	ug/l
Dibromochloromethane	1U	ug/l
Tetrachloroethene	1U	ug/l
Sec-Butylbenzene	1U	ug/l
1,3-Dichloropropane	1U	ug/l
Cis-1,2-Dichloroethene	1U	ug/l

VOA - PP Scan (GCMS) *** Continued ***	Water-Total Result	Units
trans-1,2-Dichloroethe+	1U	ug/l
1,3-Dichlorobenzene	1U	ug/l
1,1-Dichloropropene	1U	ug/l
2-Hexanone	1U	ug/l
2,2-Dichloropropane	1U	ug/l
Ethane, 1,1,1,2-Tetrac+	1U	ug/l
Total Xylenes	1U	ug/l
cis-1,3-Dichloropropene	1U	ug/l
trans-1,3-Dichloroprop+	1U	ug/l
p-Bromofluorobenzene	98	% Recov
D4-1,2-Dichlorobenzene	97	% Recov
d8-Toluene	102	% Recov
d4-1,2-Dichloroethane	101	% Recov

B/N/Acid Scan	Water-Total Result	Units
Benzo(a)pyrene	2U	ug/l
2,4-Dinitrophenol	26UJ	ug/l
Dibenzo(a,h)anthracene	5U	ug/l
Benzo(a)anthracene	2U	ug/l
4-Chloro-3-Methylphenol	10UJ	ug/l
Benzoic acid	26UJ	ug/l
Hexachloroethane	2U	ug/l
Hexachlorocyclopentadi+	10U	ug/l
Isophorone	2U	ug/l
Acenaphthene	2U	ug/l
Diethylphthalate	2UJ	ug/l
Di-n-Butylphthalate	2UJ	ug/l
Phenanthrene	2U	ug/l
Butylbenzylphthalate	5UJ	ug/l
N-Nitrosodiphenylamine	26UJ	ug/l
Fluorene	2U	ug/l
Carbazole	10UJ	ug/l
Hexachlorobutadiene	5U	ug/l
Pentachlorophenol	10U	ug/l
2,4,6-Trichlorophenol	5U	ug/l
2-Nitroaniline	5U	ug/l
2-Nitrophenol	5U	ug/l
Naphthalene, 1-Methyl-	2U	ug/l
Naphthalene	2U	ug/l
2-Methylnaphthalene	2U	ug/l
2-Chloronaphthalene	2U	ug/l

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPU2Z

Laboratory: EPA, Manchester

Sample No: 92 352351 Description: WAW01 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 08:37

B/N/Acid Scan *** Continued ***	Water-Total Result	Units
3,3'-Dichlorobenzidine	52U	ug/l
2-Methylphenol	2U	ug/l
1,2-Dichlorobenzene	2U	ug/l
o-Chlorophenol (2-Chlo+	2U	ug/l
2,4,5-Trichlorophenol	10U	ug/l
Nitrobenzene	2U	ug/l
3-Nitroaniline	REJ	ug/l
4-Nitroaniline	26U	ug/l
4-Nitrophenol	13U	ug/l
Benzyl Alcohol	41UJ	ug/l
4-Bromophenyl-phenyl*t+	2U	ug/l
2,4-Dimethylphenol	2U	ug/l
4-Methylphenol	2U	ug/l
1,4-Dichlorobenzene	2U	ug/l
4-Chloroaniline	26U	ug/l
Phenol	2U	ug/l
bis(2-Chloroethyl)Ether	2U	ug/l
bis(2-Chloroethoxy)Met+	2U	ug/l
BIS(2-ETHYLHEXYL) PHTH+	2UJ	ug/l
Di-n-Octyl Phthalate	2UJ	ug/l
Hexachlorobenzene	2U	ug/l
Anthracene	2U	ug/l
1,2,4-Trichlorobenzene	2U	ug/l
2,4-Dichlorophenol	2U	ug/l
2,4-Dinitrotoluene	5UJ	ug/l
Pyrene	2U	ug/l
Dimethylphthalate	2U	ug/l
Dibenzofuran	2U	ug/l
Benzo(ghi)perylene	2U	ug/l
Indeno(1,2,3-cd)pyrene	2U	ug/l
Benzo(b)fluoranthene	2U	ug/l
Fluoranthene	2U	ug/l
Benzo(k)fluoranthene	2U	ug/l
Acenaphthylene	2U	ug/l
Chrysene	2U	ug/l
Retene	2U	ug/l
4,6-Dinitro-2-methylph+	26UJ	ug/l
1,3-Dichlorobenzene	2U	ug/l
2,6-Dinitrotoluene	5U	ug/l
N-Nitroso-di-n-Propyla+	2U	ug/l
4-Chlorophenyl-phenyle+	2U	ug/l
BIS(2OCHLOROISOPROPYL)+	2U	ug/l
Surrog: 2-Fluorobiphen+	80	% Recov
Surrog: 2-Fluorophenol	68	% Recov
D4-1,2-Dichlorobenzene	50	% Recov
Surrog: D14-Terphenyl	68	% Recov
PYRENE-D10 (SS)	71	% Recov
Surrog: D5-Nitrobenzene	74	% Recov
Surrog: D5-Phenol	56	% Recov

Pest/PCB - PP Scan	Water-Total Result	Units
4,4'-DDT	0.052U	ug/l
Chlordane (Tech)	0.52U	ug/l
gamma-BHC (Lindane)	0.052U	ug/l
Dieldrin	0.052U	ug/l
Endrin	0.052U	ug/l
Methoxychlor	0.052U	ug/l
4,4'-DDD	0.052U	ug/l
4,4'-DDE	0.052U	ug/l
Heptachlor	0.052U	ug/l
Aldrin	0.052U	ug/l
alpha-BHC	0.052U	ug/l
beta-BHC	0.052U	ug/l
delta-BHC	0.052U	ug/l
Endosulfan I	0.052U	ug/l
Heptachlor Epoxide	0.052U	ug/l
Endosulfan sulfate	0.052U	ug/l
Endrin aldehyde	0.052U	ug/l
Toxaphene	3.0U	ug/l
PCB - 1260	0.52U	ug/l
PCB - 1254	0.52U	ug/l
PCB - 1221	0.52U	ug/l
PCB - 1232	0.52U	ug/l
PCB - 1248	0.52U	ug/l
PCB - 1016	0.52U	ug/l
Endosulfan II	0.052U	ug/l
PCB - 1242	0.52U	ug/l
Endrin Ketone	0.052U	ug/l
DIBUTYLCHLORENDATE (SS)	87	% Recov
DECACHLOROBIPHENYL	86	% Recov
4,4-Dibromooctafluorob+	83	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE — Officer: MZR — Account: FA1OPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352352 — Description: WSW01 — Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 09:15

Metals - Specified		Water-Total Result	Units
Arsenic	As-Total	4.7P*	ug/l
Lead	Pb-Total	1.2P*	ug/l
Thallium	Tl-Total	2.5U	ug/l
Selenium	Se-Total	2.0U	ug/l
Mercury	Hg-Total	.2U	ug/l

Metals - Specified Matrix Spike #1		Water-Total Result	Units
Mercury	Hg-Total	114	% Recov

Metals - Specified Matrix Spike #2		Water-Total Result	Units
Mercury	Hg-Total	112	% Recov

Metals - Specified Duplicate #1		Water-Total Result	Units
Mercury	Hg-Total	.2U	ug/l

Metals - ICP Scan		Water-Total Result	Units
Arsenic	As-Total	30.U	ug/l
Barium	Ba-Total	10.? *	ug/l
Beryllium	Be-Total	1.0U	ug/l
Cadmium	Cd-Total	2.0U	ug/l
Chromium	Cr-Total	5.0U	ug/l
Cobalt	Co-Total	3.0U	ug/l
Copper	Cu-Total	4.0P*	ug/l
Iron	Fe-Total	13.P*	ug/l
Lead	Pb-Total	20.U	ug/l
Mangnese	Mn-Total	1.0U	ug/l
Nickel	Ni-Total	10.U	ug/l
Silver	Ag-Total	3.0U	ug/l
Vanadium	V -Total	2.0U	ug/l
Zinc	Zn-Total	82.9 *	ug/l
Antimony	Sb-Total	30.U	ug/l
Aluminum	Al-Total	65.PB*	ug/l
Calcium	Ca-Total	37600 *	ug/l

Metals - ICP Scan *** Continued ***		Water-Total Result	Units
Mgnesium	Mg-Total	7700 *	ug/l
Potssium	K -Total	2200B*	ug/l
Sodium	Na-Total	4220 *	ug/l

VOA - PP Scan (GCMS)	Water-Total Result	Units
Carbon Tetrachlorida	1U	ug/l
Acetone	5UJ	ug/l
Chloroform	1U	ug/l
Benzene	1U	ug/l
1,1,1-Trichloroethane	1U	ug/l
Bromomethane	1U	ug/l
Chloromethane	1UJ	ug/l
Dibromomethane	1U	ug/l
Bromochloromethane	1U	ug/l
Chloroethane	1U	ug/l
Vinyl Chloride	1U	ug/l
Methylene Chloride	5U	ug/l
Carbon Disulfide	5U	ug/l
Bromoform	1U	ug/l
Bromodichloromethane	1U	ug/l
1,1-Dichloroethane	1U	ug/l
1,1-Dichloroethane	1U	ug/l
Trichlorofluoromethane	1U	ug/l
Methane, Dichlorodiflu+	5U	ug/l
1,2-Dichloropropane	1U	ug/l
2-Butanone	5U	ug/l
1,1,2-Trichloroethane	1U	ug/l
Ethene, trichloro-	1U	ug/l
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l
1,2,3-Trichlorobenzene	1U	ug/l
Hexachlorobutadiene	1U	ug/l
Naphthalene	1U	ug/l
2-Chlorotoluene	1U	ug/l
1,2-Dichlorobenzene	1U	ug/l
1,2,4-Trimethylbenzene	1U	ug/l
1,2-Dibromo-3-chloropr+	5U	ug/l
1,2,3-Trichloropropane	1U	ug/l
Tert-Butylbenzene	1U	ug/l
Isopropylbenzene (Cume+	1U	ug/l
p-Isopropyltoluene	1U	ug/l
Ethylbenzene	1U	ug/l

VOA - PP Scan (GCMS) *** Continued ***	Water-Total Result	Units
BENZENE, ETHENYL-(STYR+	1U	ug/l
BENZENE, PROPYL-	1U	ug/l
Butylbenzene	1U	ug/l
4-Chlorotoluene	1U	ug/l
1,4-Dichlorobenzene	1U	ug/l
1,2-Dibromoethane (EDB)	1U	ug/l
1,2-Dichloroethane	1U	ug/l
4-Methyl-2-Pentanone(M+	1U	ug/l
1,3,5-Trimethylbenzene	1U	ug/l
Bromobenzene	1U	ug/l
Toluene	1U	ug/l
Chlorobenzene	1U	ug/l
1,2,4-Trichlorobenzene	1U	ug/l
Dibromochloromethane	1U	ug/l
Tetrachloroethane	1U	ug/l
Sec-Butylbenzene	1U	ug/l
1,3-Dichloropropane	1U	ug/l
Cis-1,2-Dichloroethene	1U	ug/l
trans-1,2-Dichloroethe+	1U	ug/l
1,3-Dichlorobenzene	1U	ug/l
1,1-Dichloropropene	1U	ug/l
2-Hexanone	1U	ug/l
2,2-Dichloropropane	1U	ug/l
Ethane, 1,1,1,2-Tetrac+	1U	ug/l
Total Xylenes	1U	ug/l
cis-1,3-Dichloropropene	1U	ug/l
trans-1,3-Dichloroprop+	1U	ug/l
p-Bromofluorobenzene	93	% Recov
D4-1,2-Dichlorobenzene	98	% Recov
d8-Toluene	100	% Recov
d4-1,2-Dichloroethane	105	% Recov

B/N/Acid Scan	Water-Total Result	Units
Benzo(a)pyrene	2U	ug/l
2,4-Dinitrophenol	27UJ	ug/l
Dibenzo(a,h)anthracene	5U	ug/l
Benzo(a)anthracene	2U	ug/l
4-Chloro-3-Methylphenol	11UJ	ug/l
Benzoic acid	27UJ	ug/l
Hexachloroethane	2U	ug/l
Hexachlorocyclopentadi+	11U	ug/l

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: M2R Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352352 Description: WSW01 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 09:15

B/N/Acid Scan *** Continued ***	Water-Total Result	Units
Isophorone	2U	ug/l
Acenaphthene	2U	ug/l
Diethylphthalate	2UJ	ug/l
Di-n-Butylphthalate	2UJ	ug/l
Phenanthrene	2U	ug/l
Butylbenzylphthalate	5UJ	ug/l
N-Nitrosodiphenylamine	27UJ	ug/l
Fluorene	2U	ug/l
Carbazole	11UJ	ug/l
Hexachlorobutadiene	5U	ug/l
Pentachlorophenol	11U	ug/l
2,4,6-Trichlorophenol	5U	ug/l
2-Nitroaniline	5U	ug/l
2-Nitrophenol	5U	ug/l
Naphthalene, 1-Methyl-	2U	ug/l
Naphthalene	2U	ug/l
2-Methylnaphthalene	2U	ug/l
2-Chloronaphthalene	2U	ug/l
3,3'-Dichlorobenzidine	54U	ug/l
2-Methylphenol	2U	ug/l
1,2-Dichlorobenzene	2U	ug/l
o-Chlorophenol (2-Chlo+	2U	ug/l
2,4,5-Trichlorophenol	11U	ug/l
Nitrobenzene	2U	ug/l
3-Nitroaniline	REJ	ug/l
4-Nitroaniline	27U	ug/l
4-Nitrophenol	13U	ug/l
Benzyl Alcohol	43UJ	ug/l
4-Bromophenyl-phenylet+	2U	ug/l
2,4-Dimethylphenol	2U	ug/l
4-Methylphenol	2U	ug/l
1,4-Dichlorobenzene	2U	ug/l
4-Chloroaniline	27U	ug/l
Phenol	2U	ug/l
bis(2-Chloroethyl)Ether	2U	ug/l
bis(2-Chloroethoxy)Met+	2U	ug/l
BIS(2-ETHYLHEXYL) PHTH+	2UJ	ug/l
Di-n-Octyl Phthalate	2UJ	ug/l
Hexachlorobenzene	2U	ug/l
Anthracene	2U	ug/l
1,2,4-Trichlorobenzene	2U	ug/l
2,4-Dichlorophenol	2U	ug/l
2,4-Dinitrotoluene	5UJ	ug/l
Pyrene	2U	ug/l

B/N/Acid Scan *** Continued ***	Water-Total Result	Units
Dimethylphthalate	2U	ug/l
Dibenzofuran	2U	ug/l
Benzo(ghi)perylene	2U	ug/l
Indeno(1,2,3-cd)pyrene	2U	ug/l
Benzo(b)fluoranthene	2U	ug/l
Fluoranthene	2U	ug/l
Benzo(k)fluoranthene	2U	ug/l
Acenaphthylene	2U	ug/l
Chrysene	2U	ug/l
Retene	2U	ug/l
4,6-Dinitro-2-methylph+	27UJ	ug/l
1,3-Dichlorobenzene	2U	ug/l
2,6-Dinitrotoluene	5U	ug/l
N-Nitroso-di-n-Propyla+	2U	ug/l
4-Chlorophenyl-phenyle+	2U	ug/l
BIS(2OCHLOROISOPROPYL)+	2U	ug/l
Surrog: 2-Fluorobiphen+	85	% Recov
Surrog: 2-Fluorophenol	74	% Recov
D4-1,2-Dichlorobenzene	53	% Recov
Surrog: D14-Terphenyl	76	% Recov
PYRENE-D10 (SS)	80	% Recov
Surrog: D5-Nitrobenzene	81	% Recov
Surrog: D5-Phenol	62	% Recov

Pest/PCB - PP Scan	Water-Total Result	Units
4,4'-DDT	0.054U	ug/l
Chlordane (Tech)	0.54U	ug/l
gamma-BHC (Lindane)	0.054U	ug/l
Dieldrin	0.054U	ug/l
Endrin	0.054U	ug/l
Methoxychlor	0.054U	ug/l
4,4'-DDD	0.054U	ug/l
4,4'-DDE	0.054U	ug/l
Heptachlor	0.054U	ug/l
Aldrin	0.054U	ug/l
alpha-BHC	0.054U	ug/l
beta-BHC	0.054U	ug/l
delta-BHC	0.054U	ug/l
Endosulfan I	0.054U	ug/l
Heptachlor Epoxide	0.054U	ug/l
Endosulfan sulfate	0.054U	ug/l

Pest/PCB - PP Scan *** Continued ***	Water-Total Result	Units
Endrin aldehyde	0.054U	ug/l
Toxaphene	3.2U	ug/l
PCB - 1260	0.54U	ug/l
PCB - 1254	0.54U	ug/l
PCB - 1221	0.54U	ug/l
PCB - 1232	0.54U	ug/l
PCB - 1248	0.54U	ug/l
PCB - 1016	0.54U	ug/l
Endosulfan II	0.054U	ug/l
PCB - 1242	0.54U	ug/l
Endrin Ketone	0.054U	ug/l
D1BUTYLCHLORENDATE (SS)	92	% Recov
DECACHLOROBIPHENYL	86	% Recov
4,4-Dibromooctafluorob+	87	% Recov

Pest/PCB - PP Scan Matrix Spike #1	Water-Total Result	Units
4,4'-DDT	98	% Recov
Chlordane (Tech)	92	% Recov
gamma-BHC (Lindane)	107	% Recov
Dieldrin	NAF	% Recov
Endrin	107	% Recov
Methoxychlor	115	% Recov
4,4'-DDD	NAF	% Recov
4,4'-DDE	NAF	% Recov
Heptachlor	86	% Recov
Aldrin	75	% Recov
alpha-BHC	NAF	% Recov
beta-BHC	NAF	% Recov
delta-BHC	NAF	% Recov
Endosulfan I	101	% Recov
Heptachlor Epoxide	NAF	% Recov
Endosulfan sulfate	NAF	% Recov
Endrin aldehyde	NAF	% Recov
Toxaphene	NAF	% Recov
PCB - 1260	NAF	% Recov
PCB - 1254	NAF	% Recov
PCB - 1221	NAF	% Recov
PCB - 1232	NAF	% Recov
PCB - 1248	NAF	% Recov
PCB - 1016	NAF	% Recov
Endosulfan II	NAF	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352352 Description: WBW01 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 09:15

Pest/PCB - PP Scan *** Continued *** Matrix Spike #1	Water-Total Result	Units
PCB - 1242	NAF	% Recov
Endrin Ketone	NAF	% Recov
DIBUTYLCHLORENDATE (SS)	102	% Recov
DECACHLOROBIPHENYL	80	% Recov
4,4-Dibromooctafluorob+	71	% Recov

Pest/PCB - PP Scan Matrix Spike #2	Water-Total Result	Units
4,4'-DDT	97	% Recov
Chlordane (Tech)	89	% Recov
gamma-BHC (Lindane)	96	% Recov
Dieldrin	NAF	% Recov
Endrin	107	% Recov
Methoxychlor	108	% Recov
4,4'-DDD	NAF	% Recov
4,4'-DDE	NAF	% Recov
Heptachlor	78	% Recov
Aldrin	65	% Recov
alpha-BHC	NAF	% Recov
beta-BHC	NAF	% Recov
delta-BHC	NAF	% Recov
Endosulfan 1	99	% Recov
Heptachlor Epoxide	NAF	% Recov
Endosulfan sulfate	NAF	% Recov
Endrin aldehyde	NAF	% Recov
Toxaphene	NAF	% Recov
PCB - 1260	NAF	% Recov
PCB - 1254	NAF	% Recov
PCB - 1221	NAF	% Recov
PCB - 1232	NAF	% Recov
PCB - 1248	NAF	% Recov
PCB - 1016	NAF	% Recov
Endosulfan II	NAF	% Recov
PCB - 1242	NAF	% Recov
Endrin Ketone	NAF	% Recov
DIBUTYLCHLORENDATE (SS)	93	% Recov
DECACHLOROBIPHENYL	81	% Recov
4,4-Dibromooctafluorob+	73	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU2Z

Laboratory: EPA, Manchester

Sample No: 92 352353 Description: WSW02 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 09:15

Metals - Specified		Water-Total Result	Units
Arsenic	As-Total	4.7P*	ug/l
Lead	Pb-Total	1.4P*	ug/l
Thallium	Tl-Total	2.5U	ug/l
Selenium	Se-Total	2.0U	ug/l
Mercury	Hg-Total	.2U	ug/l

Metals - Specified Matrix Spike #1		Water-Total Result	Units
Arsenic	As-Total	110	% Recov
Lead	Pb-Total	104	% Recov
Thallium	Tl-Total	110	% Recov
Selenium	Se-Total	108	% Recov

Metals - Specified Matrix Spike #2		Water-Total Result	Units
Arsenic	As-Total	110	% Recov
Lead	Pb-Total	104	% Recov
Thallium	Tl-Total	110	% Recov
Selenium	Se-Total	106	% Recov

Metals - ICP Scan		Water-Total Result	Units
Arsenic	As-Total	30.U	ug/l
Barium	Ba-Total	10.9 *	ug/l
Beryllium	Be-Total	1.0U	ug/l
Cadmium	Cd-Total	2.0U	ug/l
Chromium	Cr-Total	5.0U	ug/l
Cobalt	Co-Total	3.0U	ug/l
Copper	Cu-Total	3.0U	ug/l
Iron	Fe-Total	13.P*	ug/l
Lead	Pb-Total	20.U	ug/l
Mangnese	Mn-Total	1.0U	ug/l
Nickel	Ni-Total	10.U	ug/l
Silver	Ag-Total	3.0U	ug/l
Vanadium	V -Total	2.0U	ug/l
Zinc	Zn-Total	85.7 *	ug/l
Antimony	Sb-Total	30.U	ug/l
Aluminum	Al-Total	67.PB*	ug/l
Calcium	Ca-Total	37600 *	ug/l

Metals - ICP Scan *** Continued ***		Water-Total Result	Units
Mgnesium	Mg-Total	7720 *	ug/l
Potssium	K -Total	2210B*	ug/l
Sodium	Na-Total	4180 *	ug/l

Metals - ICP Scan Matrix Spike #1		Water-Total Result	Units
Arsenic	As-Total	96.0	% Recov
Barium	Ba-Total	100.0	% Recov
Beryllium	Be-Total	114.3	% Recov
Cadmium	Cd-Total	99.1	% Recov
Chromium	Cr-Total	98.6	% Recov
Cobalt	Co-Total	97.2	% Recov
Copper	Cu-Total	102.5	% Recov
Iron	Fe-Total	99.4	% Recov
Lead	Pb-Total	98.3	% Recov
Mangnese	Mn-Total	100.2	% Recov
Nickel	Ni-Total	101.9	% Recov
Silver	Ag-Total	92.0	% Recov
Vanadium	V -Total	98.6	% Recov
Zinc	Zn-Total	104.8	% Recov
Antimony	Sb-Total	96.7	% Recov
Aluminum	Al-Total	105.9	% Recov
Calcium	Ca-Total	NAF	% Recov
Mgnesium	Mg-Total	NAF	% Recov
Potssium	K -Total	NAF	% Recov
Sodium	Na-Total	NAF	% Recov

Metals - ICP Scan Matrix Spike #2		Water-Total Result	Units
Arsenic	As-Total	96.7	% Recov
Barium	Ba-Total	99.8	% Recov
Beryllium	Be-Total	114.6	% Recov
Cadmium	Cd-Total	105.5	% Recov
Chromium	Cr-Total	98.7	% Recov
Cobalt	Co-Total	98.1	% Recov
Copper	Cu-Total	102.7	% Recov
Iron	Fe-Total	99.9	% Recov
Lead	Pb-Total	98.5	% Recov
Mangnese	Mn-Total	100.3	% Recov
Nickel	Ni-Total	101.6	% Recov

Metals - ICP Scan *** Continued *** Matrix Spike #2		Water-Total Result	Units
Silver	Ag-Total	92.2	% Recov
Vanadium	V -Total	98.6	% Recov
Zinc	Zn-Total	105.2	% Recov
Antimony	Sb-Total	97.2	% Recov
Aluminum	Al-Total	105.7	% Recov
Calcium	Ca-Total	NAF	% Recov
Mgnesium	Mg-Total	NAF	% Recov
Potssium	K -Total	NAF	% Recov
Sodium	Na-Total	NAF	% Recov

VOA - PP Scan (GCMS)	Water-Total Result	Units
Carbon Tetrachloride	1U	ug/l
Acetone	5UJ	ug/l
Chloroform	1U	ug/l
Benzene	1U	ug/l
1,1,1-Trichloroethane	1U	ug/l
Bromomethane	1U	ug/l
Chloromethane	1UJ	ug/l
Dibromomethane	1U	ug/l
Bromochloromethane	1U	ug/l
Chloroethane	1U	ug/l
Vinyl Chloride	1U	ug/l
Methylene Chloride	5U	ug/l
Carbon Disulfide	5U	ug/l
Bromoform	1U	ug/l
Bromodichloromethane	1U	ug/l
1,1-Dichloroethane	1U	ug/l
1,1-Dichloroethene	1U	ug/l
Trichlorofluoromethane	1U	ug/l
Methane, Dichlorodiflu+	5U	ug/l
1,2-Dichloropropane	1U	ug/l
2-Butanone	5U	ug/l
1,1,2-Trichloroethane	1U	ug/l
Ethene, trichloro-	1U	ug/l
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l
1,2,3-Trichlorobenzene	1U	ug/l
Hexachlorobutadiene	1U	ug/l
Naphthalene	1U	ug/l
2-Chlorotoluene	1U	ug/l
1,2-Dichlorobenzene	1U	ug/l
1,2,4-Trimethylbenzene	1U	ug/l

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352353 Description: WSW02 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 09:15

VOA - PP Scan (CCMS) *** Continued ***	Water-Total Result	Units
1,2-Dibromo-3-chloropr+	5U	ug/l
1,2,3-Trichloropropane	1U	ug/l
Tert-Butylbenzene	1U	ug/l
Isopropylbenzene (Cume+	1U	ug/l
p-Isopropyltoluene	1U	ug/l
Ethylbenzene	1U	ug/l
BENZENE, ETHENYL-(STYR+	1U	ug/l
BENZENE, PROPYL-	1U	ug/l
Butylbenzene	1U	ug/l
4-Chlorotoluene	1U	ug/l
1,4-Dichlorobenzene	1U	ug/l
1,2-Dibromoethane (EDB)	1U	ug/l
1,2-Dichloroethane	1U	ug/l
4-Methyl-2-Pentanone(M+	1U	ug/l
1,3,5-Trimethylbenzene	1U	ug/l
Bromobenzene	1U	ug/l
Toluene	1U	ug/l
Chlorobenzene	1U	ug/l
1,2,4-Trichlorobenzene	1U	ug/l
Dibromochloromethane	1U	ug/l
Tetrachloroethene	1U	ug/l
Sec-Butylbenzene	1U	ug/l
1,3-Dichloropropane	1U	ug/l
Cis-1,2-Dichloroethene	1U	ug/l
trans-1,2-Dichloroethe+	1U	ug/l
1,3-Dichlorobenzene	1U	ug/l
1,1-Dichloropropene	1U	ug/l
2-Hexanone	1U	ug/l
2,2-Dichloropropane	1U	ug/l
Ethane, 1,1,1,2-Tetrac+	1U	ug/l
Total Xylenes	1U	ug/l
cis-1,3-Dichloropropene	1U	ug/l
trans-1,3-Dichloroprop+	1U	ug/l
p-Bromofluorobenzene	99	% Recov
D4-1,2-Dichlorobenzene	100	% Recov
d8-Toluene	104	% Recov
d4-1,2-Dichloroethane	106	% Recov

B/N/Acid Scan	Water-Total Result	Units
Benzo(a)pyrene	2U	ug/l
2,4-Dinitrophenol	25UJ	ug/l
Dibenzo(a,h)anthracene	5U	ug/l
Benzo(a)enthracene	2U	ug/l
4-Chloro-3-Methylphenol	10UJ	ug/l
Benzoic acid	25UJ	ug/l
Hexachloroethane	2UJ	ug/l
Hexachlorocyclopentadi+	10UJ	ug/l
Isophorone	2U	ug/l
Acenaphthene	2U	ug/l
Diethylphthalate	2UJ	ug/l
Di-n-Butylphthalate	2UJ	ug/l
Phenanthrene	2U	ug/l
Butylbenzylphthalate	5UJ	ug/l
N-Nitrosodiphenylamine	25UJ	ug/l
Fluorene	2U	ug/l
Carbazole	10UJ	ug/l
Hexachlorobutadiene	5U	ug/l
Pentachlorophenol	10U	ug/l
2,4,6-Trichlorophenol	5U	ug/l
2-Nitroaniline	5U	ug/l
2-Nitrophenol	5U	ug/l
Naphthalene, 1-Methyl-	2U	ug/l
Naphthalene	2U	ug/l
2-Methylnaphthalene	2U	ug/l
2-Chloronaphthalene	2U	ug/l
3,3'-Dichlorobenzidine	50U	ug/l
2-Methylphenol	2U	ug/l
1,2-Dichlorobenzene	2U	ug/l
o-Chlorophenol (2-Chlo+	2U	ug/l
2,4,5-Trichlorophenol	10U	ug/l
Nitrobenzene	2U	ug/l
3-Nitroaniline	REJ	ug/l
4-Nitroaniline	25U	ug/l
4-Nitrophenol	12U	ug/l
Benzyl Alcohol	40UJ	ug/l
4-Bromophenyl-phenylet+	2U	ug/l
2,4-Dimethylphenol	2U	ug/l
4-Methylphenol	2U	ug/l
1,4-Dichlorobenzene	2U	ug/l
4-Chloroaniline	25U	ug/l
Phenol	2U	ug/l
bis(2-Chloroethyl)Ether	2U	ug/l
bis(2-Chloroethoxy)Met+	2U	ug/l
BIS(2-ETHYLHEXYL) PHTH+	2UJ	ug/l

B/N/Acid Scan *** Continued ***	Water-Total Result	Units
Di-n-Octyl Phthalate	2UJ	ug/l
Hexachlorobenzene	2U	ug/l
Anthracene	2U	ug/l
1,2,4-Trichlorobenzene	2U	ug/l
2,4-Dichlorophenol	2U	ug/l
2,4-Dinitrotoluene	5UJ	ug/l
Pyrene	2U	ug/l
Dimethylphthalate	2U	ug/l
Dibenzofuran	2U	ug/l
Benzo(ghi)perylene	2U	ug/l
Indeno(1,2,3-cd)pyrene	2U	ug/l
Benzo(b)fluoranthene	2U	ug/l
Fluoranthene	2U	ug/l
Benzo(k)fluoranthene	2U	ug/l
Acenaphthylene	2U	ug/l
Chrysene	2U	ug/l
Retene	2U	ug/l
4,6-Dinitro-2-methylph+	25UJ	ug/l
1,3-Dichlorobenzene	2U	ug/l
2,6-Dinitrotoluene	5U	ug/l
N-Nitroso-di-n-Propyle+	2U	ug/l
4-Chlorophenyl-phenyle+	2U	ug/l
BIS(2OCHLOROISOPROPYL)+	2U	ug/l
Surrog: 2-Fluorobiphen+	89	% Recov
Surrog: 2-Fluorophenol	74	% Recov
D4-1,2-Dichlorobenzene	56	% Recov
Surrog: D14-Terphenyl	84	% Recov
PYRENE-D10 (SS)	86	% Recov
Surrog: D5-Nitrobenzene	84	% Recov
Surrog: D5-Phenol	58	% Recov

B/N/Acid Scan Matrix Spike #1	Water-Total Result	Units
Benzo(a)pyrene	73	% Recov
2,4-Dinitrophenol	64J	% Recov
Dibenzo(a,h)anthracene	71	% Recov
Benzo(a)anthracene	74	% Recov
4-Chloro-3-Methylphenol	69J	% Recov
Benzoic acid	5J	% Recov
Hexachloroethane	48	% Recov
Hexachlorocyclopentadi+	20	% Recov
Isophorone	72	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352353 Description: WSW02 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 09:15

B/N/Acid Scan *** Continued *** Water-Total		
Matrix Spike #1	Result	Units
Acenephthene	74	% Recov
Diethylphthalate	81J	% Recov
Di-n-Butylphthalate	75J	% Recov
Phenanthrene	78	% Recov
Butylbenzylphthalate	67J	% Recov
N-Nitrosodiphenylamine	124J	% Recov
Fluorene	78	% Recov
Carbazole	NAF	% Recov
Hexachlorobutadiene	53	% Recov
Pentachlorophenol	71	% Recov
2,4,6-Trichlorophenol	66	% Recov
2-Nitroaniline	82	% Recov
2-Nitrophenol	90	% Recov
Naphthalene, 1-Methyl-	NAF	% Recov
Naphthalene	70	% Recov
2-Methylnaphthalene	52	% Recov
2-Chloronaphthalene	70	% Recov
3,3'-Dichlorobenzidine	NAF	% Recov
2-Methylphenol	74	% Recov
1,2-Dichlorobenzene	60	% Recov
o-Chlorophenol (2-Chlo+	80	% Recov
2,4,5-Trichlorophenol	77	% Recov
Nitrobenzene	76	% Recov
3-Nitroaniline	REJ	% Recov
4-Nitroaniline	81	% Recov
4-Nitrophenol	58	% Recov
Benzyl Alcohol	66J	% Recov
4-Bromophenyl-phenylet+	72	% Recov
2,4-Dimethylphenol	68	% Recov
4-Methylphenol	74	% Recov
1,4-Dichlorobenzene	59	% Recov
4-Chloroaniline	110	% Recov
Phenol	61	% Recov
bis(2-Chloroethyl)Ether	80	% Recov
bis(2-Chloroethoxy)Met+	75	% Recov
BIS(2-ETHYLHEXYL) PHTH+	63J	% Recov
Di-n-Octyl Phthalate	62J	% Recov
Hexachlorobenzene	75	% Recov
Anthracene	79	% Recov
1,2,4-Trichlorobenzene	59	% Recov
2,4-Dichlorophenol	67	% Recov
2,4-Dinitrotoluene	78J	% Recov
Pyrene	78	% Recov
Dimethylphthalate	80	% Recov

B/N/Acid Scan *** Continued *** Water-Total		
Matrix Spike #1	Result	Units
Dibenzofuran	78	% Recov
Benzo(ghi)perylene	77	% Recov
Indeno(1,2,3-cd)pyrene	71	% Recov
Benzo(b)fluoranthene	77	% Recov
Fluoranthene	78	% Recov
Benzo(k)fluoranthene	75	% Recov
Acenaphthylene	87	% Recov
Chrysene	72	% Recov
Retene	NAF	% Recov
4,6-Dinitro-2-methylph+	75J	% Recov
1,3-Dichlorobenzene	57	% Recov
2,6-Dinitrotoluene	82	% Recov
N-Nitroso-di-n-Propyla+	72	% Recov
D4-1,2-Dichlorobenzene	40	% Recov
4-Chlorophenyl-phenyla+	72	% Recov
BIS(2OCHLOROISOPROPYL)+	75	% Recov
Surrog: 2-Fluorobiphen+	72	% Recov
Surrog: 2-Fluorophenol	64	% Recov
Surrog: D14-Terphenyl	63	% Recov
PYRENE-D10 (SS)	66	% Recov
Surrog: D5-Nitrobenzene	69	% Recov
Surrog: D5-Phenol	55	% Recov

B/N/Acid Scan Water-Total		
Matrix Spike #2	Result	Units
Benzo(a)pyrene	81	% Recov
2,4-Dinitrophenol	98J	% Recov
Dibenzo(a,h)anthracene	82	% Recov
Benzo(a)anthracene	85	% Recov
4-Chloro-3-Methylphenol	82J	% Recov
Benzoic acid	21J	% Recov
Hexachloroethane	60	% Recov
Hexachlorocyclopentadi+	23	% Recov
Isophorone	86	% Recov
Acenaphthene	86	% Recov
Diethylphthalate	92J	% Recov
Di-n-Butylphthalate	86J	% Recov
Phenanthrene	90	% Recov
Butylbenzylphthalate	80J	% Recov
N-Nitrosodiphenylamine	131J	% Recov
Fluorene	90	% Recov
Carbazole	NAF	% Recov

B/N/Acid Scan *** Continued *** Water-Total		
Matrix Spike #2	Result	Units
Hexachlorobutadiene	67	% Recov
Pentachlorophenol	86	% Recov
2,4,6-Trichlorophenol	76	% Recov
2-Nitroaniline	99	% Recov
2-Nitrophenol	106	% Recov
Naphthalene, 1-Methyl-	NAF	% Recov
Naphthalene	80	% Recov
2-Methylnaphthalene	59	% Recov
2-Chloronaphthalene	79	% Recov
3,3'-Dichlorobenzidine	NAF	% Recov
2-Methylphenol	85	% Recov
1,2-Dichlorobenzene	70	% Recov
o-Chlorophenol (2-Chlo+	90	% Recov
2,4,5-Trichlorophenol	89	% Recov
Nitrobenzene	89	% Recov
3-Nitroaniline	REJ	% Recov
4-Nitroaniline	92	% Recov
4-Nitrophenol	68	% Recov
Benzyl Alcohol	80J	% Recov
4-Bromophenyl-phenylet+	84	% Recov
2,4-Dimethylphenol	81	% Recov
4-Methylphenol	86	% Recov
1,4-Dichlorobenzene	69	% Recov
4-Chloroaniline	130	% Recov
Phenol	73	% Recov
bis(2-Chloroethyl)Ether	92	% Recov
bis(2-Chloroethoxy)Met+	88	% Recov
BIS(2-ETHYLHEXYL) PHTH+	74J	% Recov
Di-n-Octyl Phthalate	73J	% Recov
Hexachlorobenzene	88	% Recov
Anthracene	90	% Recov
1,2,4-Trichlorobenzene	68	% Recov
2,4-Dichlorophenol	80	% Recov
2,4-Dinitrotoluene	92J	% Recov
Pyrene	94	% Recov
Dimethylphthalate	90	% Recov
Dibenzofuran	88	% Recov
Benzo(ghi)perylene	87	% Recov
Indeno(1,2,3-cd)pyrene	82	% Recov
Benzo(b)fluoranthene	88	% Recov
Fluoranthene	88	% Recov
Benzo(k)fluoranthene	87	% Recov
Acenaphthylene	99	% Recov
Chrysene	86	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352353 Description: WSW02 Source: Well (Drinking Water Supply)

Begin Date: 92/08/26 09:15

B/N/Acid Scan *** Continued *** Matrix Spike #2	Water-Total Result	Units
Retene	NAF	% Recov
4,6-Dinitro-2-methylph+	91J	% Recov
1,3-Dichlorobenzene	68	% Recov
2,6-Dinitrotoluene	95	% Recov
N-Nitroso-di-n-Propyla+	84	% Recov
D4-1,2-Dichlorobenzene	55	% Recov
4-Chlorophenyl-phenyle+	82	% Recov
BIS(2OCHLOROISOPROPYL)+	91	% Recov
Surrog: 2-Fluorobiphen+	91	% Recov
Surrog: 2-Fluorophenol	78	% Recov
Surrog: D14-Terphenyl	79	% Recov
PYRENE-D10 (SS)	85	% Recov
Surrog: 05-Nitrobenzene	86	% Recov
Surrog: D5-Phenol	69	% Recov

Pest/PCB - PP Scan	Water-Total Result	Units
4,4'-DDT	0.050U	ug/l
Chlordane (Tech)	0.50U	ug/l
gamma-BHC (Lindane)	0.050U	ug/l
Dieldrin	0.050U	ug/l
Endrin	0.050U	ug/l
Methoxychlor	0.050U	ug/l
4,4'-ODD	0.050U	ug/l
4,4'-DDE	0.050U	ug/l
Heptachlor	0.050U	ug/l
Aldrin	0.050U	ug/l
alpha-BHC	0.050U	ug/l
beta-BHC	0.050U	ug/l
delta-BHC	0.050U	ug/l
Endosulfan I	0.050U	ug/l
Heptachlor Epoxide	0.050U	ug/l
Endosulfan sulfate	0.050U	ug/l
Endrin aldehyde	0.050U	ug/l
Toxaphene	3.0U	ug/l
PCB - 1260	0.050U	ug/l
PCB - 1254	0.050U	ug/l
PCB - 1221	0.050U	ug/l
PCB - 1232	0.050U	ug/l
PCB - 1248	0.050U	ug/l
PCB - 1016	0.050U	ug/l
Endosulfan II	0.050U	ug/l

Pest/PCB - PP Scan *** Continued ***	Water-Total Result	Units
PCB - 1242	0.050U	ug/l
Endrin Ketone	0.050U	ug/l
DIBUTYLCHLORENDATE (SS)	92	% Recov
DECACHLOROBIPHENYL	86	% Recov
4,4-Dibromooctafluorob+	86	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZ2

Laboratory: EPA, Manchester

Sample No: 92 352354 Description: WHC01 Source: Well (Test/Observation)

Begin Date: 92/08/26 10:20

Metals - Specified		Water-Total Result	Units
Arsenic	As-Total	102.S*	ug/l
Lead	Pb-Total	54.4 *	ug/l
Thallium	Tl-Total	2.5U	ug/l
Selenium	Se-Total	2.0U	ug/l
Mercury	Hg-Total	.2U	ug/l

Metals - Specified Matrix Spike #1		Water-Total Result	Units
Mercury	Hg-Total	76	% Recov

Metals - Specified Matrix Spike #2		Water-Total Result	Units
Mercury	Hg-Total	71	% Recov

Metals - Specified Duplicate #1		Water-Total Result	Units
Arsenic	As-Total	113. *	ug/l
Lead	Pb-Total	55.6 *	ug/l
Thallium	Tl-Total	2.5U	ug/l
Selenium	Se-Total	2.0UW	ug/l

Metals - Specified Duplicate #2		Water-Total Result	Units
Mercury	Hg-Total	.2UN	ug/l

Metals - ICP Scan		Water-Total Result	Units
Arsenic	As-Total	98.P*	ug/l
Barium	Ba-Total	272 *	ug/l
Beryllium	Be-Total	2.2P*	ug/l
Cadmium	Cd-Total	3.0P*	ug/l
Chromium	Cr-Total	29.2 *	ug/l
Cobalt	Co-Total	49.1 *	ug/l
Copper	Cu-Total	171 *	ug/l
Iron	Fe-Total	74200 *	ug/l
Lead	Pb-Total	58.P*	ug/l
Manganese	Mn-Total	4020 *	ug/l
Nickel	Ni-Total	69.P*	ug/l
Silver	Ag-Total	13.6 *	ug/l
Vanadium	V -Total	66.7 *	ug/l
Zinc	Zn-Total	717 *	ug/l
Antimony	Sb-Total	32.U	ug/l
Aluminum	Al-Total	27600 *	ug/l
Calcium	Ca-Total	63500 *	ug/l
Mgnesium	Mg-Total	30200 *	ug/l
Potassium	K -Total	8460 *	ug/l
Sodium	Na-Total	14800 *	ug/l

Metals - ICP Scan Duplicate #1		Water-Total Result	Units
Arsenic	As-Total	110P*	ug/l
Barium	Ba-Total	286 *	ug/l
Beryllium	Be-Total	2.2P*	ug/l
Cadmium	Cd-Total	3.6P*	ug/l
Chromium	Cr-Total	32.2 *	ug/l
Cobalt	Co-Total	52.7 *	ug/l
Copper	Cu-Total	189 *	ug/l
Iron	Fe-Total	78800 *	ug/l
Lead	Pb-Total	62.P*	ug/l
Manganese	Mn-Total	4060 *	ug/l
Nickel	Ni-Total	84.7 *	ug/l
Silver	Ag-Total	14.4 *	ug/l
Vanadium	V -Total	70.3 *	ug/l
Zinc	Zn-Total	734 *	ug/l
Antimony	Sb-Total	31.U	ug/l
Aluminum	Al-Total	31100 *	ug/l
Calcium	Ca-Total	63900 *	ug/l
Mgnesium	Mg-Total	32600 *	ug/l
Potesium	K -Total	9090 *	ug/l
Sodium	Na-Total	15000 *	ug/l

VOA - PP Scan (GCMS)	Water-Total Result	Units
Carbon Tetrachloride	5U	ug/l
Acetone	13UJ	ug/l
Chloroform	5U	ug/l
Benzene	20 *	ug/l
1,1,1-Trichloroethane	5U	ug/l
Bromomethane	5U	ug/l
Chloromethane	5UJ	ug/l
Dibromomethane	5U	ug/l
Bromochloromethane	5U	ug/l
Chloroethane	5U	ug/l
Vinyl Chloride	5U	ug/l
Methylene Chloride	25U	ug/l
Carbon Disulfide	25U	ug/l
Bromoform	5U	ug/l
Bromodichloromethane	5U	ug/l
1,1-Dichloroethane	5U	ug/l
1,1-Dichloroethene	5U	ug/l
Trichlorofluoromethane	5U	ug/l
Methane, Dichlorodiflu+	25U	ug/l
1,2-Dichloropropane	5U	ug/l
2-Butanone	25U	ug/l
1,1,2-Trichloroethane	5U	ug/l
Ethene, trichloro-	5U	ug/l
ETHANE, 1,1,2,2-TETRAC+	5U	ug/l
1,2,3-Trichlorobenzene	5U	ug/l
Hexachlorobutadiene	5U	ug/l
Naphthalene	87 *	ug/l
2-Chlorotoluene	5U	ug/l
1,2-Dichlorobenzene	5U	ug/l
1,2,4-Trimethylbenzene	5U	ug/l
1,2-Dibromo-3-chloropr+	25U	ug/l
1,2,3-Trichloropropane	5U	ug/l
Tert-Butylbenzene	5U	ug/l
Isopropylbenzene (Cume+	5U	ug/l
p-Isopropyltoluene	5U	ug/l
Ethylbenzene	5U	ug/l
BENZENE, ETHENYL-(STYR+	5U	ug/l
BENZENE, PROPYL-	5U	ug/l
Butylbenzene	5U	ug/l
4-Chlorotoluene	5U	ug/l
1,4-Dichlorobenzene	5U	ug/l
1,2-Dibromoethane (EDB)	5U	ug/l
1,2-Dichloroethane	5U	ug/l
4-Methyl-2-Pentanone(M+	5U	ug/l
1,3,5-Trimethylbenzene	5U	ug/l

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352354 Description: WHC01 Source: Well (Test/Observation)

Begin Date: 92/08/26 10:20

VOA - PP Scan (GCMS) *** Continued ***	Water-Total Result	Units
Bromobenzene	5U	ug/l
Toluene	5U	ug/l
Chlorobenzene	5U	ug/l
1,2,4-Trichlorobenzene	5U	ug/l
Dibromochloromethane	5U	ug/l
Tetrachloroethene	5U	ug/l
Sec-Butylbenzene	5U	ug/l
1,3-Dichloropropane	5U	ug/l
Cis-1,2-Dichloroethene	5U	ug/l
trans-1,2-Dichloroethe+	5U	ug/l
1,3-Dichlorobenzene	5U	ug/l
1,1-Dichloropropene	5U	ug/l
2-Hexanone	5U	ug/l
2,2-Dichloropropane	5U	ug/l
Ethane, 1,1,1,2-Tetrac+	5U	ug/l
Total Xylenes	5U	ug/l
cis-1,3-Dichloropropene	5UJ	ug/l
trans-1,3-Dichloroprop+	5UJ	ug/l
p-Bromofluorobenzene	94	% Recov
D4-1,2-Dichlorobenzene	101	% Recov
d8-Toluene	103	% Recov
d4-1,2-Dichloroethane	101	% Recov

VOA - PP Scan (GCMS) Matrix Spike #1	Water-Total Result	Units
Carbon Tetrachloride	96	% Recov
Acetone	72J	% Recov
Chloroform	100	% Recov
Benzene	102	% Recov
1,1,1-Trichloroethane	96	% Recov
Bromomethane	102	% Recov
Chloromethane	96J	% Recov
Dibromomethane	100	% Recov
Bromochloromethane	105	% Recov
Chloroethane	104	% Recov
Vinyl Chloride	102	% Recov
Methylene Chloride	102J	% Recov
Carbon Disulfide	94J	% Recov
Bromoform	91	% Recov
Bromodichloromethane	98	% Recov
1,1-Dichloroethane	102	% Recov
1,1-Dichloroethene	102	% Recov

VOA - PP Scan (GCMS) *** Continued *** Matrix Spike #1	Water-Total Result	Units
Trichlorofluoromethane	100	% Recov
Methane, Dichlorodiflu+	102J	% Recov
1,2-Dichloropropane	108	% Recov
2-Butanone	106J	% Recov
1,1,2-Trichloroethane	100	% Recov
Ethene, trichloro-	96	% Recov
ETHANE, 1,1,2,2-TETRAC+	97	% Recov
1,2,3-Trichlorobenzene	100	% Recov
Hexachlorobutadiene	104	% Recov
Naphthalene	102	% Recov
Benzene, 1,2-Dimethyl	103	% Recov
2-Chlorotoluene	102	% Recov
1,2-Dichlorobenzene	98	% Recov
1,2,4-Trimethylbenzene	102	% Recov
1,2-Dibromo-3-chloropr+	110J	% Recov
1,2,3-Trichloropropane	104	% Recov
Tert-Butylbenzene	122	% Recov
Isopropylbenzene (Cume+	98	% Recov
p-Isopropyltoluene	99	% Recov
Ethylbenzene	105	% Recov
BENZENE, ETHENYL-(STYR+	97	% Recov
BENZENE, PROPYL-	102	% Recov
Butylbenzene	98	% Recov
4-Chlorotoluene	113	% Recov
1,4-Dichlorobenzene	102	% Recov
1,2-Dibromoethane (EDB)	104	% Recov
1,2-Dichloroethane	103	% Recov
4-Methyl-2-Pentanone(M+	106	% Recov
1,3,5-Trimethylbenzene	96	% Recov
Bromobenzene	101	% Recov
Toluene	96	% Recov
Chlorobenzene	102	% Recov
1,2,4-Trichlorobenzene	110	% Recov
Dibromochloromethane	98	% Recov
Tetrachloroethene	98	% Recov
Sec-Butylbenzene	96	% Recov
1,3-Dichloropropane	100	% Recov
Cis-1,2-Dichloroethene	102	% Recov
trans-1,2-Dichloroethe+	101	% Recov
1,3-Dichlorobenzene	98	% Recov
1,1-Dichloropropene	98	% Recov
2-Hexanone	100	% Recov
2,2-Dichloropropane	102	% Recov
Ethane, 1,1,1,2-Tetrac+	106	% Recov

VOA - PP Scan (GCMS) *** Continued *** Matrix Spike #1	Water-Total Result	Units
D4-1,2-Dichlorobenzene	102	% Recov
d8-Toluene	102	% Recov
cis-1,3-Dichloropropene	52	% Recov
trans-1,3-Dichloroprop+	41	% Recov
d4-1,2-Dichloroethane-	103	% Recov
p-Bromofluorobenzene	96	% Recov

VOA - PP Scan (GCMS) Matrix Spike #2	Water-Total Result	Units
Carbon Tetrachloride	94	% Recov
Acetone	114J	% Recov
Chloroform	97	% Recov
Benzene	83	% Recov
1,1,1-Trichloroethane	96	% Recov
Bromomethane	95	% Recov
Chloromethane	83J	% Recov
Dibromomethane	93	% Recov
Bromochloromethane	96	% Recov
Chloroethane	93	% Recov
Vinyl Chloride	92	% Recov
Methylene Chloride	96J	% Recov
Carbon Disulfide	84J	% Recov
Bromoform	81	% Recov
Bromodichloromethane	84	% Recov
1,1-Dichloroethane	90	% Recov
1,1-Dichloroethene	92	% Recov
Trichlorofluoromethane	89	% Recov
Methane, Dichlorodiflu+	97J	% Recov
1,2-Dichloropropane	100	% Recov
2-Butanone	100J	% Recov
1,1,2-Trichloroethane	106	% Recov
Ethene, trichloro-	96	% Recov
ETHANE, 1,1,2,2-TETRAC+	100	% Recov
1,2,3-Trichlorobenzene	110	% Recov
Hexachlorobutadiene	116	% Recov
Naphthalene	106	% Recov
Benzene, 1,2-Dimethyl	100	% Recov
2-Chlorotoluene	102	% Recov
1,2-Dichlorobenzene	87	% Recov
1,2,4-Trimethylbenzene	94	% Recov
1,2-Dibromo-3-chloropr+	104J	% Recov
1,2,3-Trichloropropane	102	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352354 Description: WHC01 Source: Wall (Test/Observation)

Begin Date: 92/08/26 10:20

VOA - PP Scan (CCMS) *** Continued *** Matrix Spike #2	Water-Total Result	Units
Tert-Butylbenzene	102	% Recov
Isopropylbenzene (Cume+	91	% Recov
p-Isopropyltoluene	94	% Recov
Ethylbenzene	97	% Recov
BENZENE, ETHENYL-(STYR+	90	% Recov
BENZENE, PROPYL-	101	% Recov
Butylbenzene	95	% Recov
4-Chlorotoluene	95	% Recov
1,4-Dichlorobenzene	96	% Recov
1,2-Dibromoethane (EDB)	100	% Recov
1,2-Dichloroethane	96	% Recov
4-Methyl-2-Pentanone(M+	98	% Recov
1,3,5-Trimethylbenzene	94	% Recov
Bromobenzene	100	% Recov
Toluene	86	% Recov
Chlorobenzene	100	% Recov
1,2,4-Trichlorobenzene	102	% Recov
Dibromochloromethane	87	% Recov
Tetrachloroethene	94	% Recov
Sec-Butylbenzene	92	% Recov
1,3-Dichloropropane	92	% Recov
Cis-1,2-Dichloroethene	92	% Recov
trans-1,2-Dichloroethe+	93	% Recov
1,3-Dichlorobenzene	100	% Recov
1,1-Dichloropropene	95	% Recov
2-Hexanone	94	% Recov
2,2-Dichloropropane	93	% Recov
Ethane, 1,1,1,2-Tetrac+	97	% Recov
D4-1,2-Dichlorobenzene	99	% Recov
d8-Toluene	103	% Recov
cis-1,3-Dichloropropene	44	% Recov
trans-1,3-Dichloroprop+	38	% Recov
d4-1,2-Dichloroethene	101	% Recov
p-Bromofluorobenzene	97	% Recov

Tent Ident - VOA Sca *** Continued ***	Water-Total Result	Units
Isopropylbenzene (Cume+	29NJ*	ug/l
NAPHTHALENE, 1,2,3,4-T+	40NJ*	ug/l
Benzene, 1,2,3,4-Tetra+	23NJ*	ug/l
Indan	25NJ*	ug/l
1H-INDENE, 2,3-DIHYDRO+	30NJ*	ug/l

Tent Ident - VOA Sca *** Continued ***	Water-Total Result	Units
BENZENE, (1-METHYL-1-P+	87NJ*	ug/l
1H-INDENE, 2,3-DIHYDRO+	34NJ*	ug/l
1H-INDENE, 2,3-DIHYDRO+	85NJ*	ug/l
1H-INDENE, 2,3-DIHYDRO+	24NJ*	ug/l
1H-INDENE, 2,3-DIHYDRO+	38NJ*	ug/l

B/N/Acid Scan	Water-Total Result	Units
Benzo(a)pyrene	41U	ug/l
2,4-Dinitrophenol	510UJ	ug/l
Dibenzo(a,h)anthracene	100U	ug/l
Benzo(a)anthracene	41U	ug/l
4-Chloro-3-Methylphenol	200UJ	ug/l
Benzoic acid	510UJ	ug/l
Hexachloroethane	41U	ug/l
Hexachlorocyclopentadi+	200U	ug/l
Isophorone	41U	ug/l
Acenaphthene	54 *	ug/l
Diethylphthalate	41UJ	ug/l
Di-n-Butylphthalate	41UJ	ug/l
Phenanthrene	230 *	ug/l
Butylbenzylphthalate	100UJ	ug/l
N-Nitrosodiphenylamine	510UJ	ug/l
Fluorene	150 *	ug/l
Carbazole	200UJ	ug/l
Hexachlorobutadiene	100U	ug/l
Pentachlorophenol	200U	ug/l
2,4,6-Trichlorophenol	100U	ug/l
2-Nitroaniline	100U	ug/l
2-Nitrophenol	100U	ug/l
Naphthalene, 1-Methyl-	840 *	ug/l
Naphthalene	130 *	ug/l
2-Methylnaphthalene	630 *	ug/l
2-Chloronaphthalene	41U	ug/l
3,3'-Dichlorobenzidine	1000U	ug/l
2-Methylphenol	41U	ug/l
1,2-Dichlorobenzene	41U	ug/l
o-Chlorophenol (2-Chlo+	41U	ug/l
2,4,5-Trichlorophenol	200U	ug/l
Nitrobenzene	41U	ug/l
3-Nitroaniline	REJ	ug/l
4-Nitroaniline	510U	ug/l

B/N/Acid Scan *** Continued ***	Water-Total Result	Units
4-Nitrophenol	260U	ug/l
Benzyl Alcohol	820UJ	ug/l
4-Bromophenyl-phenylet+	41U	ug/l
2,4-Dimethylphenol	41U	ug/l
4-Methylphenol	41U	ug/l
1,4-Dichlorobenzene	41U	ug/l
4-Chloroaniline	510U	ug/l
Phenol	41U	ug/l
bis(2-Chloroethyl)Ether	41U	ug/l
bis(2-Chloroethoxy)Met+	41U	ug/l
BIS(2-ETHYLHEXYL) PHTH+	41UJ	ug/l
Di-n-Octyl Phthalate	41UJ	ug/l
Hexachlorobenzene	41U	ug/l
Anthracene	41U	ug/l
1,2,4-Trichlorobenzene	41U	ug/l
2,4-Dichlorophenol	41U	ug/l
2,4-Dinitrotoluene	100UJ	ug/l
Pyrene	19J*	ug/l
Dimethylphthalate	41U	ug/l
Dibenzofuran	41U	ug/l
Benzo(ghi)perylene	41U	ug/l
Indeno(1,2,3-cd)pyrene	41U	ug/l
Benzo(b)fluoranthene	41U	ug/l
Fluoranthene	15J*	ug/l
Benzo(k)fluoranthene	41U	ug/l
Acenaphthylene	41U	ug/l
Chrysene	41U	ug/l
Retene	41U	ug/l
4,6-Dinitro-2-methylph+	510UJ	ug/l
1,3-Dichlorobenzene	41U	ug/l
2,6-Dinitrotoluene	100U	ug/l
N-Nitroso-di-n-Propyla+	41U	ug/l
4-Chlorophenyl-phenyle+	41U	ug/l
BIS(2OCHLOROISOPROPYL)+	41U	ug/l
Surrog: 2-Fluorobiphen+	114	% Recov
Surrog: 2-Fluorophenol	59	% Recov
D4-1,2-Dichlorobenzene	116	% Recov
Surrog: D14-Terphenyl	90	% Recov
PYRENE-D10 (SS)	77	% Recov
Surrog: D5-Nitrobenzene	0	% Recov
Surrog: D5-Phenol	0	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352354 Description: WHC01 Source: Well (Test/Observation)

Begin Date: 92/08/26 10:20

Tent Ident - B/N/Acl	Water-Total Result	Units
NAPHTHALENE, 1,5-DIMET+	430NJ*	ug/l
NAPHTHALENE, 1,2-DIMET+	510NJ*	ug/l
NAPHTHALENE, 1,3-DIMET+	1200NJ*	ug/l
NAPHTHALENE, 2,7-DIMET+	1000NJ*	ug/l
NAPHTHALENE, 2,3,6-TRI+	590NJ*	ug/l
NAPHTHALENE, 2-ETHYL-	420NJ*	ug/l
UNKNOWN HYDROCARBONS (+	220000NJ*	ug/l
NAPHTHALENE, 1,4,5-TRI+	460NJ*	ug/l
NAPHTHALENE, 1,4,6-TRI+	480NJ*	ug/l
NAPHTHALENE, 1,6,7-TRI+	480NJ*	ug/l

Pest/PCB - PP Scan	Water-Total Result	Units
4,4'-DDT	0.051U	ug/l
Chlordane (Tech)	0.51U	ug/l
gamma-BHC (Lindane)	0.051U	ug/l
Dieldrin	0.051U	ug/l
Endrin	0.051U	ug/l
Methoxychlor	0.051U	ug/l
4,4'-DDD	0.051U	ug/l
4,4'-DDE	0.051U	ug/l
Heptachlor	0.051U	ug/l
Aldrin	0.051U	ug/l
alpha-BHC	0.051U	ug/l
beta-BHC	0.051U	ug/l
delta-BHC	0.051U	ug/l
Endosulfan I	0.051U	ug/l
Heptachlor Epoxide	0.051U	ug/l
Endosulfan sulfate	0.051U	ug/l
Endrin aldehyde	0.051U	ug/l
Toxaphene	3.1U	ug/l
PCB - 1260	0.51U	ug/l
PCB - 1254	0.51U	ug/l
PCB - 1221	0.51U	ug/l
PCB - 1232	0.51U	ug/l
PCB - 1248	0.51U	ug/l
PCB - 1016	0.51U	ug/l
Endosulfan II	0.051U	ug/l
PCB - 1242	0.51U	ug/l
Endrin Ketone	0.051U	ug/l
DIBUTYLCHLORENDATE (SS)	75	% Recov
DECACHLOROBIPHENYL	73	% Recov
4,4-Dibromooctafluorob+	77	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352358 Description: ORS01 Source: Sludge (Waste Pond)

Begin Date: 92/08/25 12:00

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	1200E*	mg/kg-dr
Mgnsium	Mg-Sedmt	2870 *	mg/kg-dr
Sodium	Na-Sedmt	152B*	mg/kg-dr
Potssium	K -Sedmt	649 *	mg/kg-dr
Arsenic	As-Sedmt	11.0P*	mg/kg-dr
Barium	Ba-Sedmt	31.1 *	mg/kg-dr
Berylium	Be-Sedmt	0.36P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.20U	mg/kg-dr
Chromium	Cr-Sedmt	6.24 *	mg/kg-dr
Cobalt	Co-Sedmt	4.30 *	mg/kg-dr
Copper	Cu-Sedmt	121 *	mg/kg-dr
Lead	Pb-Sedmt	37.3 *	mg/kg-dr
Mangnese	Mn-Sedmt	112 *	mg/kg-dr
Nickel	Ni-Sedmt	14.4 *	mg/kg-dr
Silver	Ag-Sedmt	1.78 *	mg/kg-dr
Vanedium	V -Sedmt	23.6 *	mg/kg-dr
Zinc	Zn-Sedmt	47.3E*	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	4680 *	mg/kg-dr
Iron	Fe-Sedmt	10300 *	mg/kg-dr

Metals - ICP Scan Matrix Spike #1		Sediment Result	Units
Calcium	Ca-Sedmt	NAR	% Recov
Mgnsium	Mg-Sedmt	NAR	% Recov
Sodium	Na-Sedmt	NAR	% Recov
Potssium	K -Sedmt	NAR	% Recov
Arsenic	As-Sedmt	88.5	% Recov
Barium	Ba-Sedmt	96.2	% Recov
Berylium	Be-Sedmt	108.4	% Recov
Cadmium	Cd-Sedmt	83.6	% Recov
Chromium	Cr-Sedmt	90.0	% Recov
Cobalt	Co-Sedmt	89.3	% Recov
Copper	Cu-Sedmt	81.0	% Recov
Lead	Pb-Sedmt	78.4	% Recov

Metals - ICP Scan *** Continued *** Matrix Spike #1		Sediment Result	Units
Mangnese	Mn-Sedmt	98.5	% Recov
Nickel	Ni-Sedmt	89.8	% Recov
Silver	Ag-Sedmt	76.4	% Recov
Vanadium	V -Sedmt	92.1	% Recov
Zinc	Zn-Sedmt	81.5	% Recov
Antimony	Sb-Sedmt	33.7	% Recov
Aluminum	Al-Sedmt	NAR	% Recov
Selenium	Se-Sedmt	101.0	% Recov
Iron	Fe-Sedmt	NAR	% Recov
Thallium	Tl-Sedmt	92.0	% Recov

Metals - ICP Scan Matrix Spike #2		Sediment Result	Units
Calcium	Ca-Sedmt	NAR	% Recov
Mgnsium	Mg-Sedmt	NAR	% Recov
Sodium	Na-Sedmt	NAR	% Recov
Potssium	K -Sedmt	NAR	% Recov
Arsenic	As-Sedmt	90.1	% Recov
Barium	Ba-Sedmt	97.9	% Recov
Berylium	Be-Sedmt	110.4	% Recov
Cadmium	Cd-Sedmt	85.7	% Recov
Chromium	Cr-Sedmt	91.9	% Recov
Cobalt	Co-Sedmt	91.4	% Recov
Copper	Cu-Sedmt	72.6	% Recov
Lead	Pb-Sedmt	80.6	% Recov
Mangnese	Mn-Sedmt	80.3	% Recov
Nickel	Ni-Sedmt	91.8	% Recov
Silver	Ag-Sedmt	76.0	% Recov
Vanadium	V -Sedmt	93.7	% Recov
Zinc	Zn-Sedmt	81.3	% Recov
Antimony	Sb-Sedmt	36.4	% Recov
Aluminum	Al-Sedmt	NAR	% Recov
Selenium	Se-Sedmt	102.1	% Recov
Iron	Fe-Sedmt	NAR	% Recov
Thallium	Tl-Sedmt	94.6	% Recov

Metals - ICP Scan Duplicate #1		Sediment Result	Units
Calcium	Ca-Sedmt	1130 *	mg/kg-dr
Mgnsium	Mg-Sedmt	2780 *	mg/kg-dr
Sodium	Na-Sedmt	111B*	mg/kg-dr
Potssium	K -Sedmt	666 *	mg/kg-dr
Arsenic	As-Sedmt	9.00P*	mg/kg-dr
Barium	Ba-Sedmt	26.0 *	mg/kg-dr
Berylium	Be-Sedmt	0.33P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.17U	mg/kg-dr
Chromium	Cr-Sedmt	5.73 *	mg/kg-dr
Cobalt	Co-Sedmt	3.77 *	mg/kg-dr
Copper	Cu-Sedmt	107 *	mg/kg-dr
Lead	Pb-Sedmt	30.6 *	mg/kg-dr
Mangnese	Mn-Sedmt	99.4 *	mg/kg-dr
Nickel	Ni-Sedmt	12.7 *	mg/kg-dr
Silver	Ag-Sedmt	1.65 *	mg/kg-dr
Vanadium	V -Sedmt	22.2 *	mg/kg-dr
Zinc	Zn-Sedmt	37.2 *	mg/kg-dr
Antimony	Sb-Sedmt	2.5UN	mg/kg-dr
Aluminum	Al-Sedmt	4550 *	mg/kg-dr
Iron	Fe-Sedmt	9770 *	mg/kg-dr

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	110UJ	ug/kg
Acetone	330U	ug/kg
Chloroform	110UJ	ug/kg
Benzene	110U	ug/kg
1,1,1-Trichloroethane	110UJ	ug/kg
Bromomethane	110U	ug/kg
Chloromethane	110UJ	ug/kg
Dibromomethane	110U	ug/kg
Bromochloromethane	110U	ug/kg
Chloroethane	110UJ	ug/kg
Vinyl Chloride	110U	ug/kg
Methylene Chloride	110U	ug/kg
Carbon Disulfide	560U	ug/kg
Bromoform	110U	ug/kg
Bromodichloromethane	110UJ	ug/kg
1,1-Dichloroethane	110UJ	ug/kg
1,1-Dichloroethene	110U	ug/kg
Trichlorofluoromethane	110UJ	ug/kg
Methane, Dichlorodiflu+	560UJ	ug/kg
1,2-Dichloropropane	110U	ug/kg

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU2Z

Laboratory: EPA, Manchester

Sample No: 92 352358 Description: ORS01 Source: Sludge (Waste Pond)

Begin Date: 92/08/25 12:00

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
2-Butanone	560U	ug/kg
1,1,2-Trichloroethane	110U	ug/kg
Ethene, trichloro-	110U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	110U	ug/kg
1,2,3-Trichlorobenzene	110U	ug/kg
Hexachlorobutadiene	110U	ug/kg
Naphthalene	110U	ug/kg
2-Chlorotoluene	110U	ug/kg
1,2-Dichlorobenzene	110U	ug/kg
1,2,4-Trimethylbenzene	110U	ug/kg
1,2-Dibromo-3-chloropr+	560U	ug/kg
1,2,3-Trichloropropane	110U	ug/kg
Tert-Butylbenzene	110U	ug/kg
Isopropylbenzene (Cum+	110U	ug/kg
p-Isopropyltoluene	110U	ug/kg
Ethylbenzene	110U	ug/kg
BENZENE, ETHENYL-(STYR+	110U	ug/kg
BENZENE, PROPYL-	110U	ug/kg
Butylbenzene	110U	ug/kg
4-Chlorotoluene	110U	ug/kg
1,4-Dichlorobenzene	110U	ug/kg
1,2-Dibromoethene (EDB)	110U	ug/kg
1,2-Dichloroethane	110UJ	ug/kg
4-Methyl-2-Pentanone(M+	110U	ug/kg
1,3,5-Trimethylbenzene	110UJ	ug/kg
Bromobenzene	110U	ug/kg
Toluene	110U	ug/kg
Chlorobenzene	110U	ug/kg
1,2,4-Trichlorobenzene	110U	ug/kg
Dibromochloromethane	110U	ug/kg
Tetrachloroethene	110U	ug/kg
Sec-Butylbenzene	110U	ug/kg
1,3-Dichloropropane	110U	ug/kg
Cis-1,2-Dichloroethene	110U	ug/kg
trans-1,2-Dichloroethe+	110U	ug/kg
1,3-Dichlorobenzene	110U	ug/kg
1,1-Dichloropropene	110UJ	ug/kg
2-Hexanone	110U	ug/kg
2,2-Dichloropropane	110UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	110U	ug/kg
Total Xylenes	7J*	ug/kg
cis-1,3-Dichloropropene	110U	ug/kg
trans-1,3-Dichloroprop+	110UJ	ug/kg
p-Bromofluorobenzene	104	% Recov

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
FLUOROBENZENE	100	% Recov
d8-Toluene	96	% Recov
d4-1,2-Dichlorobenzene+	111	% Recov
1,2-Dichloroethane-d4 +	97	% Recov

Tent Ident - VOA Sca	Sediment Result	Units
UNKNOWNS (TOTAL)	2700NJ*	ug/kg
UNKNOWN HYDROCARBONS (+	2900NJ*	ug/kg
UNKNOWN BENZENES (TOTA+	11000NJ*	ug/kg
BENZENE, 1-ETHYL-4-(1-+	10000NJ*	ug/kg
1H-INDENE, 2,3-DIHYDRO+	25000NJ*	ug/kg

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	1700NJ*	ug/kg
2,4-Dinitrophenol	71000UJ	ug/kg
Dibenzo(a,h)anthracene	14000UJ	ug/kg
Benzo(a)anthracene	3400JN*	ug/kg
4-Chloro-3-Methylphenol	28000U	ug/kg
Benzoic acid	71000U	ug/kg
Hexachloroethane	5400U	ug/kg
Hexachlorocyclopentadi+	280D0UJ	ug/kg
Isophorone	5400U	ug/kg
Acenaphthene	13000J*	ug/kg
Diethylphthalate	5400U	ug/kg
Di-n-Butylphthalate	590NJ*	ug/kg
Phenanthrene	14000N*	ug/kg
Butylbenzylphthalate	14000UJ	ug/kg
N-Nitrosodiphenylamine	71000UJ	ug/kg
Fluorene	22000N*	ug/kg
Carbazole	28000UJ	ug/kg
Hexachlorobutadiene	14000U	ug/kg
Pentachlorophenol	28000UJ	ug/kg
2,4,6-Trichlorophenol	14000UJ	ug/kg
2-Nitroaniline	14000U	ug/kg
2-Nitrophenol	14000U	ug/kg
Naphthalene, 1-Methyl-	10000N*	ug/kg
Naphthalene	5400U	ug/kg
2-Methylnaphthalene	2700NJ*	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
2-Chloronaphthalene	5400U	ug/kg
3,3'-Dichlorobenzidine	140000UJ	ug/kg
2-Methylphenol	5400U	ug/kg
1,2-Dichlorobenzene	5400U	ug/kg
o-Chlorophenol (2-Chlo+	5400U	ug/kg
2,4,5-Trichlorophenol	28000UJ	ug/kg
Nitrobenzene	5400U	ug/kg
3-Nitroaniline	71000UJ	ug/kg
4-Nitroaniline	71000UJ	ug/kg
4-Nitrophenol	71000UJ	ug/kg
Benzyl Alcohol	28000UJ	ug/kg
4-Bromophenyl-phenylet+	5400U	ug/kg
2,4-Dimethylphenol	5400U	ug/kg
4-Methylphenol	5400U	ug/kg
1,4-Dichlorobenzene	5400U	ug/kg
4-Chloroaniline	71000U	ug/kg
Phenol	5400U	ug/kg
bis(2-Chloroethyl)Ether	5400U	ug/kg
bis(2-Chloroethoxy)Met+	5400U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	1300JN*	ug/kg
Di-n-Octyl Phthalate	5400U	ug/kg
Hexachlorobenzene	5400UJ	ug/kg
Anthracene	5400U	ug/kg
1,2,4-Trichlorobenzene	5400U	ug/kg
2,4-Dichlorophenol	5400U	ug/kg
2,4-Dinitrotoluene	14000UJ	ug/kg
Pyrene	15000J*	ug/kg
Dimethylphthalate	5400U	ug/kg
Dibenzofuran	5400U	ug/kg
Benzo(ghi)perylene	5400UJ	ug/kg
Indeno(1,2,3-cd)pyrene	5400UJ	ug/kg
Benzo(b)fluoranthene	4100JN*	ug/kg
Fluoranthene	6000N*	ug/kg
Benzo(k)fluoranthene	5400UJ	ug/kg
Acenaphthylene	5400U	ug/kg
Chrysene	6200 *	ug/kg
Retene	13000N*	ug/kg
4,6-Dinitro-2-methylph+	71000UJ	ug/kg
1,3-Dichlorobenzene	5400U	ug/kg
2,6-Dinitrotoluene	14000U	ug/kg
N-Nitroso-di-n-Propyla+	5400U	ug/kg
4-Chlorophenyl-phenyle+	5400UJ	ug/kg
BIS(2OCHLOROISOPROPYL)+	5400U	ug/kg
Surrog: 2-Fluorobiphen+	185	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352358 Description: ORS01 Source: Sludge (Waste Pond)

Begin Date: 92/08/25 12:00

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Surrog: 2-Fluorophenol	45	% Recov
Surrog: D14-Terphenyl	172	% Recov
PYRENE-D10 (SS)	139	% Recov
Surrog: 05-Nitrobenzene	113	% Recov
Surrog: D5-Phenol	90	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
4-HYDROXY-4-METHYLPENT+	61000NJ*	ug/kg
3-PENTEN-2-ONE, 4-METH+	28000NJ*	ug/kg
NAPHTHALENE, 1-METHYL-+	160000NJ*	ug/kg
2-PENTADECANONE, 6,10,+	5500NJ*	ug/kg
1,1'-BIPHENYL, 2,2'-DI+	150000NJ*	ug/kg
1,1'-BIPHENYL, 2,4'-DI+	67000NJ*	ug/kg
UNKNOWN HYDROCARBON #2	590000NJ*	ug/kg
UNKNOWN HYDROCARBON #3	430000NJ*	ug/kg
UNKNOWN HYDROCARBON #4	450000NJ*	ug/kg
UNKNOWN HYDROCARBON #5	130000NJ*	ug/kg
UNKNOWN HYDROCARBON #6	130000NJ*	ug/kg
1,1'-BIPHENYL, 2-ETHYL-	41000NJ*	ug/kg
NAPHTHALENE, 1,4,6-TRI+	170000NJ*	ug/kg
NAPHTHALENE, 1,6,7-TRI+	170000NJ*	ug/kg
NAPHTHALENE, 1-(2-PROP+	140000NJ*	ug/kg
9H-FLUORENE, 2,3-DIMET+	46000NJ*	ug/kg
UNKNOWN HYDROCARBON 1	340000NJ*	ug/kg
UNKNOWN COMPOUND 1	10000NJ*	ug/kg
BENZENE, 1-METHYL-3-(2+	100000NJ*	ug/kg
1-INDANONE, 5,6-DIMETH+	4200NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	7300NJ*	ug/kg
3-HEXADECENE, (Z)-	2700NJ*	ug/kg
HEPTADECANE, 2,6-DIMET+	90100NJ*	ug/kg
3,5-OCTADIENE, 4,5-DIE+	10000NJ*	ug/kg
IRON, TRICARBONYL[N-PH+	12000NJ*	ug/kg

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	110U	ug/kg
Chlordane (Tech)	112U	ug/kg
gamma-BHC (Lindane)	110U	ug/kg
Dieldrin	110UJ	ug/kg

Pest/PCB - PP Scan *** Continued ***	Sediment Result	Units
Endrin	110UJ	ug/kg
Methoxychlor	110UJ	ug/kg
4,4'-DDD	110U	ug/kg
4,4'-DDE	110U	ug/kg
Heptachlor	110U	ug/kg
Aldrin	110U	ug/kg
alpha-BHC	110U	ug/kg
beta-BHC	110U	ug/kg
delta-BHC	110U	ug/kg
Endosulfan I	110UJ	ug/kg
Heptachlor Epoxide	110U	ug/kg
Endosulfan sulfate	110U	ug/kg
Endrin aldehyde	110U	ug/kg
Toxaphene	670U	ug/kg
PCB - 1260	760 *	ug/kg
PCB - 1254	112U	ug/kg
PCB - 1221	112U	ug/kg
PCB - 1232	112U	ug/kg
PCB - 1248	112U	ug/kg
PCB - 1016	112U	ug/kg
Endosulfan II	110U	ug/kg
PCB - 1242	112U	ug/kg
Endrin Ketone	110U	ug/kg
Surrog: 2,4,6-Tribromo+	130	% Recov
DIBUTYLCHLORENDATE (SS)	52	% Recov
DECACHLOROBIPHENYL	86	% Recov

Pest/PCB - PP Scan Matrix Spike #1	Sediment Result	Units
4,4'-DDT	98	% Recov
Chlordane (Tech)	58	% Recov
gamma-BHC (Lindane)	68	% Recov
Dieldrin	NAP	% Recov
Endrin	NAP	% Recov
Methoxychlor	37	% Recov
4,4'-DDD	NAP	% Recov
4,4'-DDE	NAP	% Recov
Heptachlor	98	% Recov
Aldrin	75	% Recov
alpha-BHC	NAP	% Recov
beta-BHC	NAP	% Recov
delta-BHC	NAP	% Recov

Pest/PCB - PP Scan *** Continued *** Matrix Spike #1	Sediment Result	Units
Endosulfan I	48	% Recov
Heptachlor Epoxide	NAP	% Recov
Endosulfan sulfate	NAP	% Recov
Endrin aldehyde	NAP	% Recov
Toxaphene	NAP	% Recov
PCB - 1260	NAP	% Recov
PCB - 1254	NAP	% Recov
PCB - 1221	NAP	% Recov
PCB - 1232	NAP	% Recov
PCB - 1248	NAP	% Recov
PCB - 1016	NAP	% Recov
Endosulfan II	NAP	% Recov
PCB - 1242	NAP	% Recov
Endrin Ketone	NAP	% Recov
Surrog: 2,4,6-Tribromo+	83	% Recov
DIBUTYLCHLORENDATE (SS)	53	% Recov
DECACHLOROBIPHENYL	83	% Recov

Pest/PCB - PP Scan Matrix Spike #2	Sediment Result	Units
4,4'-DDT	116	% Recov
Chlordane (Tech)	66	% Recov
gamma-BHC (Lindane)	74	% Recov
Dieldrin	NAP	% Recov
Endrin	NAP	% Recov
Methoxychlor	20	% Recov
4,4'-DDD	NAP	% Recov
4,4'-DDE	NAP	% Recov
Heptachlor	102	% Recov
Aldrin	75	% Recov
alpha-BHC	NAP	% Recov
beta-BHC	NAP	% Recov
delta-BHC	NAP	% Recov
Endosulfan I	48J	% Recov
Heptachlor Epoxide	NAP	% Recov
Endosulfan sulfate	NAP	% Recov
Endrin aldehyde	NAP	% Recov
Toxaphene	NAP	% Recov
PCB - 1260	NAP	% Recov
PCB - 1254	NAP	% Recov
PCB - 1221	NAP	% Recov
PCB - 1232	NAP	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352358 Description: OR801 Source: Sludge (Waste Pond)

Begin Date: 92/08/25 12:00

Pest/PCB - PP Scan *** Continued *** Matrix Spike #2	Sediment Result	Units
PCB - 1248	NAF	% Recov
PCB - 1016	NAF	% Recov
Endosulfan II	NAF	% Recov
PCB - 1242	NAF	% Recov
Endrin Ketone	NAF	% Recov
Surrog: 2,4,6-Tribromo+	81	% Recov
DIBUTYLCHLORENDATE (SS)	59	% Recov
DECACHLOROBIPHENYL	78	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352359 Description: ORS02 Source: Sludge (Waste Pond)

Begin Date: 92/08/25 12:00

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.21PW*	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.046N*	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	1300 *	mg/kg-dr
Mgnsium	Mg-Sedmt	3130 *	mg/kg-dr
Sodium	Na-Sedmt	248B*	mg/kg-dr
Potasium	K -Sedmt	816 *	mg/kg-dr
Arsenic	As-Sedmt	11.0P*	mg/kg-dr
Barium	Ba-Sedmt	30.7 *	mg/kg-dr
Berylium	Be-Sedmt	0.38P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.56P*	mg/kg-dr
Chromium	Cr-Sedmt	6.18 *	mg/kg-dr
Cobalt	Co-Sedmt	4.11 *	mg/kg-dr
Copper	Cu-Sedmt	82.0E*	mg/kg-dr
Lead	Pb-Sedmt	20.6 *	mg/kg-dr
Mangnese	Mn-Sedmt	94.2 *	mg/kg-dr
Nickel	Ni-Sedmt	15.3 *	mg/kg-dr
Silver	Ag-Sedmt	2.13 *	mg/kg-dr
Vanadium	V -Sedmt	23.0 *	mg/kg-dr
Zinc	Zn-Sedmt	87.2 *	mg/kg-dr
Antimony	Sb-Sedmt	2.9UN	mg/kg-dr
Aluminum	Al-Sedmt	5520 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	12000 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

Metals - ICP Scan Duplicate #1		Sediment Result	Units
Calcium	Ca-Sedmt	1340 *	mg/kg-dr
Mgnsium	Mg-Sedmt	3200 *	mg/kg-dr
Sodium	Na-Sedmt	244B*	mg/kg-dr
Potasium	K -Sedmt	826 *	mg/kg-dr
Arsenic	As-Sedmt	11.0P*	mg/kg-dr
Barium	Ba-Sedmt	31.2 *	mg/kg-dr
Berylium	Be-Sedmt	0.37P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.22U	mg/kg-dr
Chromium	Cr-Sedmt	6.61 *	mg/kg-dr
Cobalt	Co-Sedmt	5.04 *	mg/kg-dr

Metals - ICP Scan *** Continued *** Duplicate #1		Sediment Result	Units
Copper	Cu-Sedmt	120 *	mg/kg-dr
Lead	Pb-Sedmt	24.5 *	mg/kg-dr
Mangnese	Mn-Sedmt	94.7 *	mg/kg-dr
Nickel	Ni-Sedmt	13.1 *	mg/kg-dr
Silver	Ag-Sedmt	1.98 *	mg/kg-dr
Vanadium	V -Sedmt	24.1 *	mg/kg-dr
Zinc	Zn-Sedmt	75.9 *	mg/kg-dr
Antimony	Sb-Sedmt	3.2UN	mg/kg-dr
Aluminum	Al-Sedmt	5470 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	11400 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	120UJ	ug/kg
Acetone	600U	ug/kg
Chloroform	120UJ	ug/kg
Benzene	120U	ug/kg
1,1,1-Trichloroethane	120UJ	ug/kg
Bromomethane	120U	ug/kg
Chloromethane	120UJ	ug/kg
Dibromomethane	120U	ug/kg
Bromochloromethane	120U	ug/kg
Chloroethane	120UJ	ug/kg
Vinyl Chloride	120U	ug/kg
Methylene Chloride	17J*	ug/kg
Carbon Disulfide	600U	ug/kg
Bromoform	120U	ug/kg
Bromodichloromethane	120UJ	ug/kg
1,1-Dichloroethane	120UJ	ug/kg
1,1-Dichloroethene	120U	ug/kg
Trichlorofluoromethane	120UJ	ug/kg
Methane, Dichlorodiflu+	600UJ	ug/kg
1,2-Dichloropropane	120U	ug/kg
2-Butanone	600U	ug/kg
1,1,2-Trichloroethane	120U	ug/kg
Ethene, trichloro-	120U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	120U	ug/kg
1,2,3-Trichlorobenzene	120U	ug/kg
Hexachlorobutadiene	120U	ug/kg
Naphthalene	120U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
2-Chlorotoluene	120U	ug/kg
1,2-Dichlorobenzene	120U	ug/kg
1,2,4-Trimethylbenzene	120U	ug/kg
1,2-Dibromo-3-chloropr+	600U	ug/kg
1,2,3-Trichloropropane	120U	ug/kg
Tert-Butylbenzene	120U	ug/kg
Isopropylbenzene (Cume+	120U	ug/kg
p-Isopropyltoluene	120U	ug/kg
Ethylbenzene	120U	ug/kg
BENZENE, ETHENYL-(STYR+	120U	ug/kg
BENZENE, PROPYL-	120U	ug/kg
Butylbenzene	120U	ug/kg
4-Chlorotoluene	120U	ug/kg
1,4-Dichlorobenzene	120U	ug/kg
1,2-Dibromoethane (EDB)	120U	ug/kg
1,2-Dichloroethane	120UJ	ug/kg
4-Methyl-2-Pentanone(M+	120U	ug/kg
1,3,5-Trimethylbenzene	120UJ	ug/kg
Bromobenzene	120U	ug/kg
Toluene	120U	ug/kg
Chlorobenzene	120U	ug/kg
1,2,4-Trichlorobenzene	120U	ug/kg
Dibromochloromethane	120U	ug/kg
Tetrachloroethene	120U	ug/kg
Sec-Butylbenzene	120U	ug/kg
1,3-Dichloropropane	120U	ug/kg
Cis-1,2-Dichloroethene	120U	ug/kg
trans-1,2-Dichloroethe+	120U	ug/kg
1,3-Dichlorobenzene	120U	ug/kg
1,1-Dichloropropene	120UJ	ug/kg
2-Hexanone	120U	ug/kg
2,2-Dichloropropane	120UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	120U	ug/kg
Total Xylenes	4J*	ug/kg
cis-1,3-Dichloropropene	120U	ug/kg
trans-1,3-Dichloroprop+	120UJ	ug/kg
p-Bromofluorobenzene	105	% Recov
FLUOROBENZENE	102	% Recov
d8-Toluene	95	% Recov
d4-1,2-Dichlorobenzene+	106	% Recov
1,2-Dichloroethane-d4 +	96	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352359 Description: ORS02 Source: Sludge (Waste Pond)

Begin Date: 92/08/25 12:00

Tent Ident - VOA Scn	Sediment Result	Units
UNKNOWNS (TOTAL)	1000NJ*	ug/kg
UNKNOWN HYDROCARBONS (+	2400NJ*	ug/kg
UNKNOWN BENZENES (TOTA+	3400NJ*	ug/kg
BENZENE, 1-(1,1-DIMETH+	1300NJ*	ug/kg
1H-INDENE, 2,3-DIHYDRO+	2100NJ*	ug/kg
BENZENE, 1-(1-METHYLET+	1700NJ*	ug/kg

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	700JN*	ug/kg
2,4-Dinitrophenol	70000UJ	ug/kg
Dibenzo(a,h)anthracene	14000U	ug/kg
Benzo(a)anthracene	5300N*	ug/kg
4-Chloro-3-Methylphenol	28000U	ug/kg
Benzoic acid	70000UJ	ug/kg
Hexachloroethane	5300U	ug/kg
Hexachlorocyclopentadi+	28000UJ	ug/kg
Isophorone	5300U	ug/kg
Acenaphthene	4000JN*	ug/kg
Diethylphthalat*	5300U	ug/kg
Di-n-Butylphthalate	5300UJ	ug/kg
Phenanthrene	5300UJ	ug/kg
Butylbenzylphthalate	520J*	ug/kg
N-Nitrosodiphenylamine	70000UJ	ug/kg
Fluorene	5300U	ug/kg
Carbazole	28000UJ	ug/kg
Hexachlorobutadiene	14000UJ	ug/kg
Pentachlorophenol	28000UJ	ug/kg
2,4,6-Trichlorophenol	14000U	ug/kg
2-Nitroaniline	14000U	ug/kg
2-Nitrophenol	14000U	ug/kg
Naphthalene, 1-Methyl-	8400 *	ug/kg
Naphthalene	5300U	ug/kg
2-Methylnaphthalene	2700NJ*	ug/kg
2-Chloronaphthalene	5300U	ug/kg
3,3'-Dichlorobenzidine	140000U	ug/kg
2-Methylphenol	5300U	ug/kg
1,2-Dichlorobenzene	5300U	ug/kg
o-Chlorophenol (2-Chlo+	5300U	ug/kg
2,4,5-Trichlorophenol	27000UJ	ug/kg
Nitrobenzene	5300U	ug/kg
3-Nitroaniline	70000UJ	ug/kg
4-Nitroaniline	70000U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
4-Nitrophenol	70000U	ug/kg
Benzyl Alcohol	28000UJ	ug/kg
4-Bromophenyl-phenylet+	5300U	ug/kg
2,4-Dimethylphenol	5300U	ug/kg
4-Methylphenol	5300U	ug/kg
1,4-Dichlorobenzene	5300U	ug/kg
4-Chloroaniline	70000U	ug/kg
Phenol	5300U	ug/kg
bis(2-Chloroethyl)Ether	5300U	ug/kg
bis(2-Chloroethoxy)Met+	5300U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	5300U	ug/kg
Di-n-Octyl Phthalate	420J*	ug/kg
Hexachlorobenzene	5300UJ	ug/kg
Anthracene	5300UJ	ug/kg
1,2,4-Trichlorobenzene	5300U	ug/kg
2,4-Dichlorophenol	5300U	ug/kg
2,4-Dinitrotoluene	14000U	ug/kg
Pyrene	10000N*	ug/kg
Dimethylphthalate	5300U	ug/kg
Dibenzofuran	5300U	ug/kg
Benzo(ghi)perylene	1200NJ*	ug/kg
Indeno(1,2,3-cd)pyrene	5300U	ug/kg
Benzo(b)fluoranthene	2200J*	ug/kg
Fluoranthene	5300UJ	ug/kg
Benzo(k)fluoranthene	5300UJ	ug/kg
Acenaphthylene	5300U	ug/kg
Chrysene	4900JN*	ug/kg
Retene	5300U	ug/kg
4,6-Dinitro-2-methylph+	70000UJ	ug/kg
1,3-Dichlorobenzene	5300U	ug/kg
2,6-Dinitrotoluene	14000U	ug/kg
N-Nitroso-di-n-Propyla+	5300U	ug/kg
4-Chlorophenyl-phenyla+	5300UJ	ug/kg
BIS(2OCHLOROISOPROPYL)+	5300U	ug/kg
Surrog: 2-Fluorobiphen+	103	% Recov
Surrog: 2-Fluorophenol	21	% Recov
Surrog: D14-Terphenyl	30	% Recov
PYRENE-D10 (SS)	35	% Recov
Surrog: D5-Nitrobenzene	62	% Recov
Surrog: D5-Phenol	47	% Recov

B/N/Acid Scan Matrix Spike #1	Sediment Result	Units
Benzo(a)pyrene	52	% Recov
2,4-Dinitrophenol	0.001UJ	% Recov
Dibenzo(a,h)anthracene	51	% Recov
Benzo(a)anthracene	76	% Recov
4-Chloro-3-Methylphenol	0.0004U	% Recov
Benzoic acid	0.001UJ	% Recov
Hexachloroethane	84	% Recov
Hexachlorocyclopentadi+	0.0004UJ	% Recov
Isophorone	28	% Recov
Acenaphthene	48	% Recov
Diethylphthalate	0.0001U	% Recov
Di-n-Butylphthalate	44	% Recov
Phenanthrene	55	% Recov
Butylbenzylphthalate	37	% Recov
N-Nitrosodiphenylamine	0.001U	% Recov
Fluorene	38	% Recov
Carbazole	0.0004UJ	% Recov
Hexachlorobutadiene	55J	% Recov
Pentachlorophenol	0.0004U	% Recov
2,4,6-Trichlorophenol	0.0002UJ	% Recov
2-Nitroaniline	25	% Recov
2-Nitrophenol	0.0002U	% Recov
Naphthalene, 1-Methyl-	0.0001U	% Recov
Naphthalene	74	% Recov
2-Methylnaphthalene	87	% Recov
2-Chloronaphthalene	47	% Recov
3,3'-Dichlorobenzidine	0.002U	% Recov
2-Methylphenol	94	% Recov
1,2-Dichlorobenzene	52	% Recov
o-Chlorophenol (2-Chlo+	0.0001U	% Recov
2,4,5-Trichlorophenol	0.0004UJ	% Recov
Nitrobenzene	67	% Recov
3-Nitroaniline	0.001UJ	% Recov
4-Nitroaniline	0.001U	% Recov
4-Nitrophenol	0.001U	% Recov
Benzyl Alcohol	89	% Recov
4-Bromophenyl-phenylet+	0.0001UJ	% Recov
2,4-Dimethylphenol	60	% Recov
4-Methylphenol	93	% Recov
1,4-Dichlorobenzene	51	% Recov
4-Chloroaniline	0.001U	% Recov
Phenol	0.0001U	% Recov
bis(2-Chloroethyl)Ether	54	% Recov
bis(2-Chloroethoxy)Met+	66	% Recov
BIS(2-ETHYLHEXYL) PHTH+	130J	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPU2Z

Laboratory: EPA, Manchester

Sample No: 92 352359 Description: ORS02 Source: Sludge (Waste Pond)

Begin Date: 92/08/25 12:00

B/N/Acid Scan *** Continued *** Matrix Spike #1	Sediment Result	Units
Di-n-Octyl Phthalate	110J	% Recov
Hexachlorobenzene	0.0001UJ	% Recov
Anthracene	55	% Recov
1,2,4-Trichlorobenzene	69	% Recov
2,4-Dichlorophenol	0.0001U	% Recov
2,4-Dinitrotoluene	0.0002U	% Recov
Pyrene	82	% Recov
Dimethylphthalate	0.0001U	% Recov
Dibenzofuran	7	% Recov
Benzo(ghi)perylene	15	% Recov
Indeno(1,2,3-cd)pyrene	37	% Recov
Benzo(b)fluoranthene	110	% Recov
Fluoranthene	100	% Recov
Benzo(k)fluoranthene	92	% Recov
Acenaphthylene	0.0001U	% Recov
Chrysene	120	% Recov
Retene	0.0001U	% Recov
4,6-Dinitro-2-methylph+	0.001UJ	% Recov
1,3-Dichlorobenzene	51	% Recov
2,6-Dinitrotoluene	0.0002U	% Recov
N-Nitroso-di-n-Propyla+	110	% Recov
4-Chlorophenyl-phenyle+	0.0001UJ	% Recov
BIS(2OCHLOROISOPROPYL)+	63J	% Recov
Surrog: 2-Fluorobiphen+	165	% Recov
Surrog: 2-Fluorophenol	109	% Recov
Surrog: D14-Terphenyl	47	% Recov
PYRENE-D10 (SS)	31	% Recov
Surrog: D5-Nitrobenzene	120	% Recov
Surrog: D5-Phenol	133	% Recov

B/N/Acid Scan Matrix Spike #2	Sediment Result	Units
Benzo(e)pyrene	70	% Recov
2,4-Dinitrophenol	0.006UJ	% Recov
Dibenzo(a,h)anthracene	40	% Recov
Benzo(a)anthracene	56	% Recov
4-Chloro-3-Methylphenol	35	% Recov
Benzoic acid	0.006UJ	% Recov
Hexachloroethane	34	% Recov
Hexachlorocyclopentadi+	0.002UJ	% Recov
Isophorone	7	% Recov
Acenaphthene	75	% Recov

B/N/Acid Scan *** Continued *** Matrix Spike #2	Sediment Result	Units
Diethylphthalate	0.0005U	% Recov
Di-n-Butylphthalate	23	% Recov
Phenanthrene	35	% Recov
Butylbenzylphthalate	22	% Recov
N-Nitrosodiphenylamine	5	% Recov
Fluorene	64	% Recov
Carbazole	0.002UJ	% Recov
Hexachlorobutadiene	21J	% Recov
Pentachlorophenol	0.002U	% Recov
2,4,6-Trichlorophenol	0.001UJ	% Recov
2-Nitroaniline	0.001U	% Recov
2-Nitrophenol	0.001U	% Recov
Naphthalene, 1-Methyl-	0.0005U	% Recov
Naphthalene	62	% Recov
2-Methylnaphthalene	43	% Recov
2-Chloronaphthalene	69	% Recov
3,3'-Dichlorobenzidine	0.01U	% Recov
2-Methylphenol	65	% Recov
1,2-Dichlorobenzene	48	% Recov
o-Chlorophenol (2-Chlo+	50	% Recov
2,4,5-Trichlorophenol	0.002UJ	% Recov
Nitrobenzene	57	% Recov
3-Nitroaniline	0.006UJ	% Recov
4-Nitroaniline	0.006U	% Recov
4-Nitrophenol	0.006U	% Recov
Benzyl Alcohol	78J	% Recov
4-Bromophenyl-phenylet+	31J	% Recov
2,4-Dimethylphenol	68	% Recov
4-Methylphenol	70	% Recov
1,4-Dichlorobenzene	54	% Recov
4-Chloroaniline	0.006U	% Recov
Phenol	41	% Recov
bis(2-Chloroethyl)Ether	47	% Recov
bis(2-Chloroethoxy)Met+	58	% Recov
BIS(2-ETHYLHEXYL) PHTH+	68J	% Recov
Di-n-Octyl Phthalate	56J	% Recov
Hexachlorobenzene	27J	% Recov
Anthracene	37	% Recov
1,2,4-Trichlorobenzene	58	% Recov
2,4-Dichlorophenol	21	% Recov
2,4-Dinitrotoluene	0.001U	% Recov
Pyrene	87	% Recov
Dimethylphthalate	1	% Recov
Dibenzofuran	17	% Recov

B/N/Acid Scan *** Continued *** Matrix Spike #2	Sediment Result	Units
Benzo(ghi)perylene	42	% Recov
Indeno(1,2,3-cd)pyrene	41	% Recov
Benzo(b)fluoranthene	87	% Recov
Fluoranthene	43	% Recov
Benzo(k)fluoranthene	69	% Recov
Acenaphthylene	68	% Recov
Chrysene	82	% Recov
Retene	0.0005U	% Recov
4,6-Dinitro-2-methylph+	0.006UJ	% Recov
1,3-Dichlorobenzene	39	% Recov
2,6-Dinitrotoluene	0.001U	% Recov
N-Nitroso-di-n-Propyla+	28	% Recov
4-Chlorophenyl-phenyle+	0.0005UJ	% Recov
BIS(2OCHLOROISOPROPYL)+	56J	% Recov
Surrog: 2-Fluorobiphen+	150	% Recov
Surrog: 2-Fluorophenol	66	% Recov
Surrog: D14-Terphenyl	45	% Recov
PYRENE-D10 (SS)	48	% Recov
Surrog: D5-Nitrobenzene	108	% Recov
Surrog: D5-Phenol	77	% Recov

B/N/Acid Scan Duplicate #1	Sediment Result	Units
Benzo(e)pyrene	0.0001U	% Recov
2,4-Dinitrophenol	0.0002U	% Recov
Dibenzo(a,h)anthracene	0.0003U	% Recov
Benzo(a)anthracene	0.0001U	% Recov
4-Chloro-3-Methylphenol	0.0001U	% Recov
Benzoic acid	0.0002U	% Recov
Hexachloroethane	52	% Recov
Hexachlorocyclopentadi+	0.0001U	% Recov
Isophorone	92	% Recov
Acenaphthene	68	% Recov
Diethylphthalate	55	% Recov
Di-n-Butylphthalate	8	% Recov
Phenanthrene	0.0001U	% Recov
Butylbenzylphthalate	0.0003U	% Recov
N-Nitrosodiphenylamine	0.0002U	% Recov
Fluorene	71	% Recov
Carbazole	0.0001UJ	% Recov
Hexachlorobutadiene	31	% Recov
Pentachlorophenol	0.0001U	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352359 Description: ORS02 Source: Sludge (Waste Pond)

Begin Date: 92/08/25 12:00

B/N/Acid Scan *** Continued *** Sediment			B/N/Acid Scan *** Continued *** Sediment			B/N/Acid Scan *** Continued *** Sediment		
Duplicate #1	Result	Units	Duplicate #1	Result	Units	Duplicate #2	Result	Units
2,4,6-Trichlorophenol	0.0003U	% Recov	1,3-Dichlorobenzene	84	% Recov	1,2-Dichlorobenzene	65	% Recov
2-Nitroaniline	48	% Recov	2,6-Dinitrotoluene	0.0003U	% Recov	o-Chlorophenol (2-Chlo+	0.02U	% Recov
2-Nitrophenol	0.0003U	% Recov	N-Nitroso-di-n-Propyla+	40	% Recov	2,4,5-Trichlorophenol	0.1U	% Recov
Naphthalene, 1-Methyl-	0.0001U	% Recov	Surrog: 2-Fluorobiphen+	0	% Recov	Nitrobenzene	80	% Recov
Naphthalene	68	% Recov	Surrog: 2-Fluorophenol	8	% Recov	3-Nitroaniline	0.2UJ	% Recov
2-Methylnaphthalene	60	% Recov	4-Chlorophenyl-phenyle+	0.0001U	% Recov	4-Nitroaniline	0.2U	% Recov
2-Chloronaphthalene	0.0001U	% Recov	Surrog: D14-Terphenyl	0	% Recov	4-Nitrophenol	0.2U	% Recov
3,3'-Dichlorobenzidine	0.0003U	% Recov	PYRENE-D10 (SS)	0	% Recov	Benzyl Alcohol	52	% Recov
2-Methylphenol	0.0001U	% Recov	Surrog: D5-Nitrobenzene	118	% Recov	4-Bromophenyl-phenylet+	0.02U	% Recov
1,2-Dichlorobenzene	45	% Recov	Surrog: D5-Phenol	0	% Recov	2,4-Dimethylphenol	0.02U	% Recov
o-Chlorophenol (2-Chlo+	0.0001U	% Recov	BIS(2OCHLOROISOPROPYL)+	58	% Recov	4-Methylphenol	0.02U	% Recov
2,4,5-Trichlorophenol	0.0001U	% Recov				1,4-Dichlorobenzene	130	% Recov
Nitrobenzene	65	% Recov				4-Chloroaniline	0.2U	% Recov
3-Nitroaniline	0.0002UJ	% Recov	B/N/Acid Scan *** Duplicate #2 *** Sediment			Phenol	0.02U	% Recov
4-Nitroaniline	0.0002U	% Recov	Benzo(a)pyrene	0.02U	% Recov	bis(2-Chloroethyl)Ether	75	% Recov
4-Nitrophenol	0.0002U	% Recov	2,4-Dinitrophenol	0.2U	% Recov	bis(2-Chloroethoxy)Met+	75	% Recov
Benzyl Alcohol	35	% Recov	Dibenzo(a,h)anthracene	0.05U	% Recov	BIS(2-ETHYLHEXYL) PHTH+	4J	% Recov
4-Bromophenyl-phenylet+	0.0001U	% Recov	Benzo(a)anthracene	0.02U	% Recov	Di-n-Octyl Phthalate	12J	% Recov
2,4-Dimethylphenol	0.0001U	% Recov	4-Chloro-3-Methylphenol	0.1U	% Recov	Hexachlorobenzene	0.02U	% Recov
4-Methylphenol	0.0001U	% Recov	Benzoic acid	0.2U	% Recov	Anthracene	0.02U	% Recov
1,4-Dichlorobenzene	84	% Recov	Hexachloroethene	44	% Recov	1,2,4-Trichlorobenzene	72	% Recov
4-Chloroaniline	0.0002U	% Recov	Hexachlorocyclopentadi+	0.1U	% Recov	2,4-Dichlorophenol	0.02U	% Recov
Phenol	0.0001U	% Recov	Isophorone	109	% Recov	2,4-Dinitrotoluene	0.05U	% Recov
bis(2-Chloroethyl)Ether	64	% Recov	Acenaphthene	53	% Recov	Pyrene	0.02U	% Recov
bis(2-Chloroethoxy)Met+	66	% Recov	Diethylphthalate	56	% Recov	Dimethylphthalate	80	% Recov
BIS(2-ETHYLHEXYL) PHTH+	11	% Recov	Di-n-Butylphthalate	23	% Recov	Dibenzofuran	27	% Recov
Di-n-Octyl Phthalate	5	% Recov	Phenanthrene	0.02U	% Recov	Benzo(ghi)perylene	0.02U	% Recov
Hexachlorobenzene	0.0001UJ	% Recov	Butylbenzylphthalate	15J	% Recov	Indeno(1,2,3-cd)pyrene	0.02U	% Recov
Anthracene	0.0001U	% Recov	N-Nitrosodiphenylamine	0.2U	% Recov	Benzo(b)fluoranthene	0.02U	% Recov
1,2,4-Trichlorobenzene	54	% Recov	Fluorene	37	% Recov	Fluoranthene	0.02U	% Recov
2,4-Dichlorophenol	0.0001U	% Recov	Carbazole	0.1UJ	% Recov	Benzo(k)fluoranthene	0.02U	% Recov
2,4-Dinitrotoluene	0.0003U	% Recov	Hexachlorobutadiene	41	% Recov	Acenaphthylene	66	% Recov
Pyrene	0.0001U	% Recov	Pentachlorophenol	0.1U	% Recov	Chrysene	0.02U	% Recov
Dimethylphthalate	35	% Recov	2,4,6-Trichlorophenol	0.05U	% Recov	Retene	0.02U	% Recov
Dibenzofuran	32	% Recov	2-Nitroaniline	44J	% Recov	4,6-Dinitro-2-methylph+	0.2U	% Recov
Benzo(ghi)perylene	0.0001U	% Recov	2-Nitrophenol	0.05U	% Recov	1,3-Dichlorobenzene	130	% Recov
Indeno(1,2,3-cd)pyrene	0.0001U	% Recov	Naphthalene, 1-Methyl-	0.02U	% Recov	2,6-Dinitrotoluene	0.05U	% Recov
Benzo(b)fluoranthene	0.0001U	% Recov	Naphthalene	71	% Recov	N-Nitroso-di-n-Propyla+	51	% Recov
Fluoranthene	0.0001U	% Recov	2-Methylnaphthalene	54	% Recov	Surrog: 2-Fluorobiphen+	193	% Recov
Benzo(k)fluoranthene	0.0001U	% Recov	2-Chloronaphthalene	78	% Recov	Surrog: 2-Fluorophenol	9	% Recov
Acenaphthylene	0.0001U	% Recov	3,3'-Dichlorobenzidine	0.5U	% Recov	4-Chlorophenyl-phenyle+	0.02U	% Recov
Chrysene	0.0001U	% Recov	2-Methylphenol	0.02U	% Recov	Surrog: D14-Terphenyl	0	% Recov
Retene	0.0001U	% Recov				PYRENE-D10 (SS)	0	% Recov
4,6-Dinitro-2-methylph+	0.0002U	% Recov				Surrog: D5-Nitrobenzene	144	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352359 Description: OR302 Source: Sludge (Waste Pond)

Begin Date: 92/08/25 12:00

B/N/Acid Scan *** Continued *** Duplicate #2	Sediment Result	Units
Surrog: D5-Phenol	0	% Recov
BIS(2CHLOROISOPROPYL)+	68	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
UNKNOWN HYDROCARBON #1	5600NJ*	ug/kg
UNKNOWN HYDROCARBON #2	10000NJ*	ug/kg
PENTADECANE, 2-METHYL-	8500NJ*	ug/kg
9-OCTADECENE, (E)-	13000NJ*	ug/kg
UNKNOWN HYDROCARBON 3	24000NJ*	ug/kg
UNKNOWN HYDROCARBON 4	620000NJ*	ug/kg
UNKNOWN HYDROCARBON 5	220000NJ*	ug/kg
UNKNOWN HYDROCARBON 6	220000NJ*	ug/kg
UNKNOWN COMPOUND 1	96000NJ*	ug/kg
UNKNOWN COMPOUND 2	8000NJ*	ug/kg
UNKNOWN COMPOUND 3	19000NJ*	ug/kg
UNKNOWN COMPOUND 4	96000NJ*	ug/kg
HEPTADECANE, 2,6-DIMET+	22500NJ*	ug/kg
9-EICOSENE, (E)-	16000NJ*	ug/kg

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	110U	ug/kg
Chlordane (Tech)	109U	ug/kg
gamma-BHC (Lindane)	110U	ug/kg
Dieldrin	110U	ug/kg
Endrin	110U	ug/kg
Methoxychlor	110U	ug/kg
4,4'-DDD	110U	ug/kg
4,4'-DDE	110U	ug/kg
Heptachlor	110U	ug/kg
Aldrin	110U	ug/kg
alpha-BHC	110U	ug/kg
beta-BHC	110U	ug/kg
delta-BHC	110U	ug/kg
Endosulfan I	110U	ug/kg
Heptachlor Epoxide	110U	ug/kg
Endosulfan sulfate	110U	ug/kg
Endrin aldehyde	110U	ug/kg
Toxaphene	660U	ug/kg

Pest/PCB - PP Scan *** Continued ***	Sediment Result	Units
PCB - 1260	890 *	ug/kg
PCB - 1254	109U	ug/kg
PCB - 1221	109U	ug/kg
PCB - 1232	109U	ug/kg
PCB - 1248	109U	ug/kg
PCB - 1016	109U	ug/kg
Endosulfan II	110U	ug/kg
PCB - 1242	109U	ug/kg
Endrin Ketone	110U	ug/kg
Surrog: 2,4,6-Tribromo+	116	% Recov
DIBUTYLCHLORENDATE (SS)	NAF	% Recov
DECACHLOROBIPHENYL	77	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352360 Description: SS001 Source: Sediment (General)

Begin Date: 92/08/25 12:30

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	1160 *	mg/kg-dr
Mgnsium	Mg-Sedmt	45.30 *	mg/kg-dr
Sodium	Na-Sedmt	368B*	mg/kg-dr
Potssium	K -Sedmt	812 *	mg/kg-dr
Arsenic	As-Sedmt	23.0 *	mg/kg-dr
Barium	Ba-Sedmt	27.6 *	mg/kg-dr
Berylium	Be-Sedmt	0.29P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.28P*	mg/kg-dr
Chromium	Cr-Sedmt	7.22 *	mg/kg-dr
Cobalt	Co-Sedmt	9.60 *	mg/kg-dr
Copper	Cu-Sedmt	27.5E*	mg/kg-dr
Lead	Pb-Sedmt	25.4 *	mg/kg-dr
Mangnese	Mn-Sedmt	203 *	mg/kg-dr
Nickel	Ni-Sedmt	12.7 *	mg/kg-dr
Silver	Ag-Sedmt	3.33N*	mg/kg-dr
Vanadium	V -Sedmt	14.8 *	mg/kg-dr
Zinc	Zn-Sedmt	47.9 *	mg/kg-dr
Antimony	Sb-Sedmt	2.9UN	mg/kg-dr
Aluminum	Al-Sedmt	7380 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	18800 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	2U	ug/kg
Acetone	10UJ	ug/kg
Chloroform	2U	ug/kg
Benzene	2U	ug/kg
1,1,1-Trichloroethane	2U	ug/kg
Bromomethane	2U	ug/kg
Chloromethane	2U	ug/kg
Dibromomethane	2U	ug/kg
Bromochloromethane	2U	ug/kg
Chloroethane	2U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Vinyl Chloride	2U	ug/kg
Methylene Chloride	12U	ug/kg
Carbon Disulfide	12U	ug/kg
Bromoform	2U	ug/kg
Bromodichloromethane	2U	ug/kg
1,1-Dichloroethane	2U	ug/kg
1,1-Dichloroethene	2U	ug/kg
Trichlorofluoromethane	2U	ug/kg
Methane, Dichlorodiflu+	12UJ	ug/kg
1,2-Dichloropropane	2U	ug/kg
2-Butanone	3U	ug/kg
1,1,2-Trichloroethene	2U	ug/kg
Ethene, trichloro-	2U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	2U	ug/kg
1,2,3-Trichlorobenzene	2U	ug/kg
Hexachlorobutadiene	2UJ	ug/kg
Naphthalene	2U	ug/kg
2-Chlorotoluene	2U	ug/kg
1,2-Dichlorobenzene	2U	ug/kg
1,2,4-Trimethylbenzene	2UJ	ug/kg
1,2-Dibromo-3-chloropr+	12UJ	ug/kg
1,2,3-Trichloropropane	2U	ug/kg
Tert-Butylbenzene	2U	ug/kg
Isopropylbenzene (Cume+	2U	ug/kg
p-Isopropyltoluene	2UJ	ug/kg
Ethylbenzene	2U	ug/kg
BENZENE, ETHENYL-(STYR+	2U	ug/kg
BENZENE, PROPYL-	2U	ug/kg
Butylbenzene	2UJ	ug/kg
4-Chlorotoluene	2U	ug/kg
1,4-Dichlorobenzene	2U	ug/kg
1,2-Dibromoethane (EDB)	2U	ug/kg
1,2-Dichloroethane	2U	ug/kg
4-Methyl-2-Pentenone(M+	2U	ug/kg
1,3,5-Trimethylbenzene	2UJ	ug/kg
Bromobenzene	2U	ug/kg
Toluene	2U	ug/kg
Chlorobenzene	2U	ug/kg
1,2,4-Trichlorobenzene	2U	ug/kg
Dibromochloromethane	2U	ug/kg
Tetrachloroethene	2U	ug/kg
Sec-Butylbenzene	2UJ	ug/kg
1,3-Dichloropropane	2U	ug/kg
Cis-1,2-Dichloroethene	2U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
trans-1,2-Dichloroethe+	2U	ug/kg
1,3-Dichlorobenzene	2U	ug/kg
1,1-Dichloropropene	2U	ug/kg
2-Hexanone	2U	ug/kg
2,2-Dichloropropane	2U	ug/kg
Ethane, 1,1,1,2-Tetrac+	2U	ug/kg
Total Xylenes	2U	ug/kg
cis-1,3-Dichloropropene	2U	ug/kg
trans-1,3-Dichloroprop+	2U	ug/kg
p-Bromofluorobenzene	92	% Recov
FLUOROBENZENE	98	% Recov
d8-Toluene	101	% Recov
d4-1,2-Dichlorobenzene+	102	% Recov
1,2-Dichloroethane-d4 +	134	% Recov

Tent Ident - VOA Sca	Sediment Result	Units
DISULFIDE, DIMETHYL	0.62NJ*	ug/kg

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	13JN*	ug/kg
2,4-Dinitrophenol	REJ	ug/kg
Dibenzo(a,h)anthracene	350U	ug/kg
Benzo(a)anthracene	31NJ*	ug/kg
4-Chloro-3-Methylphenol	REJ	ug/kg
Benzoic acid	REJ	ug/kg
Hexachloroethane	140U	ug/kg
Hexachlorocyclopentadi+	710U	ug/kg
Isophorone	27J*	ug/kg
Acenaphthene	140U	ug/kg
Diethylphthalate	140U	ug/kg
Di-n-Butylphthalate	230U	ug/kg
Phenanthrene	49J*	ug/kg
Butylbenzylphthalate	140U	ug/kg
N-Nitrosodiphenylamine	24J*	ug/kg
Fluorene	140U	ug/kg
Carbazole	68J*	ug/kg
Hexachlorobutadiene	350U	ug/kg
Pentachlorophenol	REJ	ug/kg

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352360 Description: SS001 Source: Sediment (General)

Begin Date: 92/08/25 12:30

B/N/Acid Scan *** Continued ***	Sediment Result	Units
2,4,6-Trichlorophenol	REJ	ug/kg
2-Nitroaniline	350U	ug/kg
2-Nitrophenol	REJ	ug/kg
Naphthalene, 1-Methyl-	4JN*	ug/kg
Naphthalene	10J*	ug/kg
2-Methylnaphthalene	6J*	ug/kg
2-Chloronaphthalene	140U	ug/kg
3,3'-Dichlorobenzidine	3500U	ug/kg
2-Methylphenol	REJ	ug/kg
1,2-Dichlorobenzene	140U	ug/kg
o-Chlorophenol (2-Chlo+	REJ	ug/kg
2,4,5-Trichlorophenol	REJ	ug/kg
Nitrobenzene	140U	ug/kg
3-Nitroaniline	REJ	ug/kg
4-Nitroaniline	1800U	ug/kg
4-Nitrophenol	REJ	ug/kg
Benzyl Alcohol	710U	ug/kg
4-Bromophenyl-phenylet+	140U	ug/kg
2,4-Dimethylphenol	REJ	ug/kg
4-Methylphenol	REJ	ug/kg
1,4-Dichlorobenzene	140U	ug/kg
4-Chloroaniline	1800UJ	ug/kg
Phenol	REJ	ug/kg
bis(2-Chloroethyl)Ether	140U	ug/kg
bis(2-Chloroethoxy)Met+	12J*	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	8600J*	ug/kg
Di-n-Octyl Phthalate	140U	ug/kg
Hexachlorobenzene	140U	ug/kg
Anthracene	140U	ug/kg
1,2,4-Trichlorobenzene	140U	ug/kg
2,4-Dichlorophenol	REJ	ug/kg
2,4-Dinitrotoluene	350U	ug/kg
Pyrene	64J*	ug/kg
Dimethylphthalate	140U	ug/kg
Dibenzofuran	3NJ*	ug/kg
Benzo(ghi)perylene	140U	ug/kg
Indeno(1,2,3-cd)pyrene	140U	ug/kg
Benzo(b)fluoranthene	16JN*	ug/kg
Fluoranthene	23J*	ug/kg
Benzo(k)fluoranthene	140U	ug/kg
Acenaphthylene	140U	ug/kg
Chrysene	85J*	ug/kg
Retene	140U	ug/kg
4,6-Dinitro-2-methylph+	REJ	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
1,3-Dichlorobenzene	140U	ug/kg
2,6-Dinitrotoluene	350U	ug/kg
N-Nitroso-di-n-Propyla+	140UJ	ug/kg
4-Chlorophenyl-phenyle+	140U	ug/kg
BIS(2OCHLOROISOPROPYL)+	140UJ	ug/kg
Surrog: 2-Fluorobiphen+	95	% Recov
Surrog: 2-Fluorophenol	38	% Recov
Surrog: D14-Terphenyl	101	% Recov
PYRENE-D10 (88)	80	% Recov
Surrog: D5-Nitrobenzene	100	% Recov
Surrog: D5-Phenol	5	% Recov

Tent Idant - B/N/Aci	Sediment Result	Units
HEXANEDIOIC ACID, BIS(+	860NJ*	ug/kg
HEXANEDIOIC ACID, bis(+	3900NJ*	ug/kg
2-PENTANONE	2.1NJ*	ug/kg
1,2-BENZENEDICARBOXYLI+	160NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	2.11NJ*	ug/kg
GLYCOCYANIDINE	34NJ*	ug/kg
GLYCOCYANIDINE	300NJ*	ug/kg
2-HEXANOL	96000NJ*	ug/kg
2-CYCLOHEXEN-1-ONE, 3,+	2.1NJ*	ug/kg
PHENANTHRENE, 2,3-DIME+	150NJ*	ug/kg
PHENANTHRENE, 2,3,5-TR+	170NJ*	ug/kg
HEXANEDIOIC ACID, MONO+	3800NJ*	ug/kg
UNKNOWN HYDROCARBON 1	370NJ*	ug/kg
UNKNOWN HYDROCARBON 2	160NJ*	ug/kg
UNKNOWN HYDROCARBON 3	220NJ*	ug/kg
UNKNOWN HYDROCARBON 4	240NJ*	ug/kg
UNKNOWN HYDROCARBON 5	360NJ*	ug/kg
UNKNOWN HYDROCARBON 6	440NJ*	ug/kg
UNKNOWN HYDROCARBON 7	460NJ*	ug/kg
UNKNOWN HYDROCARBON 8	410NJ*	ug/kg
UNKNOWN HYDROCARBON 9	670NJ*	ug/kg
UNKNOWN HYDROCARBON 10	420NJ*	ug/kg
UNKNOWN HYDROCARBON 11	610NJ*	ug/kg
UNKNOWN COMPOUND 1	950NJ*	ug/kg
UNKNOWN COMPOUND 2	420NJ*	ug/kg
UNKNOWN COMPOUND 3	200NJ*	ug/kg
UNKNOWN COMPOUND 4	120NJ*	ug/kg
UNKNOWN COMPOUND 5	130NJ*	ug/kg

Tent Idant - B/N/Aci *** Continued ***	Sediment Result	Units
UNKNOWN COMPOUND 6	290NJ*	ug/kg
UNKNOWN COMPOUND 7	88NJ*	ug/kg
UNKNOWN COMPOUND 8	1500NJ*	ug/kg
2-HEXANONE, 6-BROMO-	19JN*	ug/kg
CYCLOHEPTENE, 1-CHLORO-5.7	EXP8NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	1400NJ*	ug/kg
HEXANE, 1-PROPOXY-	2.1NJ*	ug/kg
N,N'-BIS(2-METHYL-2-NI+	48NJ*	ug/kg

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	6U	ug/kg
Chlordane (Tech)	57U	ug/kg
gamma-BHC (Lindane)	6U	ug/kg
Dieldrin	6U	ug/kg
Endrin	6U	ug/kg
Methoxychlor	6U	ug/kg
4,4'-DDD	6U	ug/kg
4,4'-DDE	6U	ug/kg
Heptachlor	6U	ug/kg
Aldrin	6U	ug/kg
alpha-BHC	6U	ug/kg
beta-BHC	6U	ug/kg
delta-BHC	6U	ug/kg
Endosulfan 1	6U	ug/kg
Heptachlor Epoxide	6U	ug/kg
Endosulfan sulfate	6U	ug/kg
Endrin aldehyde	6U	ug/kg
Toxaphene	340U	ug/kg
PCB - 1260	57U	ug/kg
PCB - 1254	57U	ug/kg
PCB - 1221	57U	ug/kg
PCB - 1232	57U	ug/kg
PCB - 1248	57U	ug/kg
PCB - 1016	57U	ug/kg
Endosulfan II	6U	ug/kg
PCB - 1242	57U	ug/kg
Endrin Ketone	6U	ug/kg
Surrog: 2,4,6-Tribromo+	105	% Recov
DIBUTYLCHLORENDATE (SS)	50	% Recov
DECACHLOROBIPHENYL	65	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU2Z

Laboratory: EPA, Manchester

Sample No: 92 352361 Description: SS002 Source: Sediment (General)

Begin Date: 92/08/25 11:00

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	1340 *	mg/kg-dr
Magnesium	Mg-Sedmt	4150 *	mg/kg-dr
Sodium	Na-Sedmt	393B*	mg/kg-dr
Potassium	K -Sedmt	916 *	mg/kg-dr
Arsenic	As-Sedmt	17.2 *	mg/kg-dr
Barium	Ba-Sedmt	33.8E*	mg/kg-dr
Beryllium	Be-Sedmt	0.34P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.20U	mg/kg-dr
Chromium	Cr-Sedmt	7.46 *	mg/kg-dr
Cobalt	Co-Sedmt	5.95 *	mg/kg-dr
Copper	Cu-Sedmt	42.0 *	mg/kg-dr
Lead	Pb-Sedmt	36.5 *	mg/kg-dr
Mangnese	Mn-Sedmt	167 *	mg/kg-dr
Nickel	Ni-Sedmt	12.0 *	mg/kg-dr
Silver	Ag-Sedmt	3.02N*	mg/kg-dr
Vanadium	V -Sedmt	18.4E*	mg/kg-dr
Zinc	Zn-Sedmt	52.1E*	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	6440 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	16300 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

Metals - ICP Scan Matrix Spike #1		Sediment Result	Units
Calcium	Ca-Sedmt	NAR	% Recov
Magnesium	Mg-Sedmt	NAR	% Recov
Sodium	Na-Sedmt	NAR	% Recov
Potassium	K -Sedmt	NAR	% Recov
Arsenic	As-Sedmt	80.0	% Recov
Barium	Ba-Sedmt	92.5	% Recov
Beryllium	Be-Sedmt	103.5	% Recov
Cadmium	Cd-Sedmt	76.9	% Recov
Chromium	Cr-Sedmt	86.3	% Recov
Cobalt	Co-Sedmt	85.3	% Recov

Metals - ICP Scan *** Continued *** Matrix Spike #1		Result	Units
Copper	Cu-Sedmt	85.9	% Recov
Lead	Pb-Sedmt	78.5	% Recov
Mangnese	Mn-Sedmt	83.3	% Recov
Nickel	Ni-Sedmt	83.3	% Recov
Silver	Ag-Sedmt	67.4	% Recov
Vanadium	V -Sedmt	84.7	% Recov
Zinc	Zn-Sedmt	78.2	% Recov
Antimony	Sb-Sedmt	26.5	% Recov
Aluminum	Al-Sedmt	NAR	% Recov
Selenium	Se-Sedmt	NAR	% Recov
Iron	Fe-Sedmt	NAR	% Recov
Thallium	Tl-Sedmt	NAR	% Recov

Metals - ICP Scan Matrix Spike #2		Sediment Result	Units
Calcium	Ca-Sedmt	NAR	mg/kg
Magnesium	Mg-Sedmt	NAR	mg/kg
Sodium	Na-Sedmt	NAR	mg/kg
Potassium	K -Sedmt	NAR	mg/kg
Arsenic	As-Sedmt	79.7	mg/kg
Barium	Ba-Sedmt	93.2	mg/kg
Beryllium	Be-Sedmt	103.6	mg/kg
Cadmium	Cd-Sedmt	77.6	mg/kg
Chromium	Cr-Sedmt	85.0	mg/kg
Cobalt	Co-Sedmt	85.2	mg/kg
Copper	Cu-Sedmt	97.6	mg/kg
Lead	Pb-Sedmt	80.4	mg/kg
Mangnese	Mn-Sedmt	99.1	mg/kg
Nickel	Ni-Sedmt	84.3	mg/kg
Silver	Ag-Sedmt	70.1	mg/kg
Vanadium	V -Sedmt	83.8	mg/kg
Zinc	Zn-Sedmt	78.1	mg/kg
Antimony	Sb-Sedmt	29.5	mg/kg
Aluminum	Al-Sedmt	NAR	mg/kg
Selenium	Se-Sedmt	NAR	mg/kg
Iron	Fe-Sedmt	NAR	mg/kg
Thallium	Tl-Sedmt	NAR	mg/kg

Metals - ICP Scan Duplicate #1		Sediment Result	Units
Calcium	Ca-Sedmt	1380 *	mg/kg-dr
Magnesium	Mg-Sedmt	4370 *	mg/kg-dr
Sodium	Na-Sedmt	380B*	mg/kg-dr
Potassium	K -Sedmt	999 *	mg/kg-dr
Arsenic	As-Sedmt	15.6 *	mg/kg-dr
Barium	Ba-Sedmt	35.5 *	mg/kg-dr
Beryllium	Be-Sedmt	0.33P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.21P*	mg/kg-dr
Chromium	Cr-Sedmt	7.61 *	mg/kg-dr
Cobalt	Co-Sedmt	5.45 *	mg/kg-dr
Copper	Cu-Sedmt	49.2 *	mg/kg-dr
Lead	Pb-Sedmt	32.7 *	mg/kg-dr
Mangnese	Mn-Sedmt	170 *	mg/kg-dr
Nickel	Ni-Sedmt	13.1 *	mg/kg-dr
Silver	Ag-Sedmt	3.11N*	mg/kg-dr
Vanadium	V -Sedmt	18.6 *	mg/kg-dr
Zinc	Zn-Sedmt	59.4 *	mg/kg-dr
Antimony	Sb-Sedmt	3.1PN*	mg/kg-dr
Aluminum	Al-Sedmt	6910 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	16800 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	2U	ug/kg
Acetone	38U	ug/kg
Chloroform	2U	ug/kg
Benzene	2U	ug/kg
1,1,1-Trichloroethane	2U	ug/kg
Bromomethane	2U	ug/kg
Chloromethane	2U	ug/kg
Dibromomethene	2U	ug/kg
Bromochloromethane	2U	ug/kg
Chloroethane	2U	ug/kg
Vinyl Chloride	2U	ug/kg
Methylene Chloride	11U	ug/kg
Carbon Disulfide	11U	ug/kg
Bromoform	2UJ	ug/kg
Bromodichloromethane	2U	ug/kg
1,1-Dichloroethene	2U	ug/kg
1,1-Dichloroethene	2U	ug/kg
Trichlorofluoromethane	2U	ug/kg

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352361 Description: SS002 Source: Sediment (General)

Begin Date: 92/08/25 11:00

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Methane, Dichlorodiflu+	11UJ	ug/kg
1,2-Dichloropropane	2U	ug/kg
2-Butanone	7U	ug/kg
1,1,2-Trichloroethane	2U	ug/kg
Ethene, trichloro-	2U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	2U	ug/kg
1,2,3-Trichlorobenzene	2UJ	ug/kg
Hexachlorobutadiene	2UJ	ug/kg
Naphthalene	2UJ	ug/kg
2-Chlorotoluene	2UJ	ug/kg
1,2-Dichlorobenzene	2UJ	ug/kg
1,2,4-Trimethylbenzene	2UJ	ug/kg
1,2-Dibromo-3-chloropr+	11UJ	ug/kg
1,2,3-Trichloropropane	2UJ	ug/kg
Tert-Butylbenzene	2UJ	ug/kg
Isopropylbenzene (Cume+	2UJ	ug/kg
p-Isopropyltoluene	7J*	ug/kg
Ethylbenzene	2U	ug/kg
BENZENE, ETHENYL-(STYR+	2U	ug/kg
BENZENE, PROPYL-	2UJ	ug/kg
Butylbenzene	2UJ	ug/kg
4-Chlorotoluene	2UJ	ug/kg
1,4-Dichlorobenzene	2UJ	ug/kg
1,2-Dibromoethane (EDB)	2U	ug/kg
1,2-Dichloroethane	2U	ug/kg
4-Methyl-2-Pentanone(M+	2U	ug/kg
1,3,5-Trimethylbenzene	2UJ	ug/kg
Bromobenzene	2UJ	ug/kg
Toluene	0.2J*	ug/kg
Chlorobenzene	2U	ug/kg
1,2,4-Trichlorobenzene	2UJ	ug/kg
Dibromochloromethane	2U	ug/kg
Tetrachloroethene	2U	ug/kg
Sec-Butylbenzene	2UJ	ug/kg
1,3-Dichloropropane	2U	ug/kg
Cis-1,2-Dichloroethene	2U	ug/kg
trans-1,2-Dichloroethe+	2U	ug/kg
1,3-Dichlorobenzene	2UJ	ug/kg
1,1-Dichloropropene	2U	ug/kg
2-Hexanone	2U	ug/kg
2,2-Dichloropropane	2U	ug/kg
Ethane, 1,1,1,2-Tetrac+	2U	ug/kg
Total Xylenes	2UJ	ug/kg
cis-1,3-Dichloropropene	2U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
trans-1,3-Dichloroprop+	2U	ug/kg
p-Bromofluorobenzene	86	% Recov
FLUOROBENZENE	98	% Recov
d8-Toluene	111	% Recov
d4-1,2-Dichlorobenzene+	102	% Recov
1,2-Dichloroethane-d4 +	142	% Recov

Tent Ident - VOA Scn	Sediment Result	Units
UNKNOWNS (TOTAL)	500J*	ug/kg
UNKNOWN HYDROCARBONS (+	1700J*	ug/kg

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	630U	ug/kg
2,4-Dinitrophenol	REJ	ug/kg
Dibenzo(a,h)anthracene	1600U	ug/kg
Benzo(a)anthracene	630U	ug/kg
4-Chloro-3-Methylphenol	REJ	ug/kg
Benzoic acid	REJ	ug/kg
Hexachloroethane	630U	ug/kg
Hexachlorocyclopentadi+	3300U	ug/kg
Isophorone	110J*	ug/kg
Acenaphthene	630U	ug/kg
Diethylphthalate	630U	ug/kg
Di-n-Butylphthalate	630U	ug/kg
Phenanthrene	180J*	ug/kg
Butylbenzylphthalate	1600U	ug/kg
N-Nitrosodiphenylamine	86J*	ug/kg
Fluorene	630U	ug/kg
Carbazole	29J*	ug/kg
Hexachlorobutadiene	1600U	ug/kg
Pentachlorophenol	REJ	ug/kg
2,4,6-Trichlorophenol	REJ	ug/kg
2-Nitroaniline	1600U	ug/kg
2-Nitrophenol	REJ	ug/kg
Naphthalene, 1-Methyl-	84JN*	ug/kg
Naphthalene	630U	ug/kg
2-Methylnaphthalene	63JN*	ug/kg
2-Chloronaphthalene	630U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
3,3'-Dichlorobenzidine	16000U	ug/kg
2-Methylphenol	REJ	ug/kg
1,2-Dichlorobenzene	630U	ug/kg
o-Chlorophenol (2-Chlo+	REJ	ug/kg
2,4,5-Trichlorophenol	REJ	ug/kg
Nitrobenzene	630U	ug/kg
3-Nitroaniline	REJ	ug/kg
4-Nitroaniline	8300U	ug/kg
4-Nitrophenol	REJ	ug/kg
Benzyl Alcohol	1500J*	ug/kg
4-Bromophenyl-phenylet+	630U	ug/kg
2,4-Dimethylphenol	REJ	ug/kg
4-Methylphenol	REJ	ug/kg
1,4-Dichlorobenzene	630U	ug/kg
4-Chloroaniline	8300UJ	ug/kg
Phenol	REJ	ug/kg
bis(2-Chloroethyl)Ether	630U	ug/kg
bis(2-Chloroethoxy)Met+	630U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	950U	ug/kg
Di-n-Octyl Phthalate	630U	ug/kg
Hexachlorobenzene	630U	ug/kg
Anthracene	180J*	ug/kg
1,2,4-Trichlorobenzene	630U	ug/kg
2,4-Dichlorophenol	REJ	ug/kg
2,4-Dinitrotoluene	1600U	ug/kg
Pyrene	280J*	ug/kg
Dimethylphthalate	630U	ug/kg
Dibenzofuran	630U	ug/kg
Benzo(ghi)perylene	630U	ug/kg
Indeno(1,2,3-cd)pyrene	630U	ug/kg
Benzo(b)fluoranthene	630U	ug/kg
Fluoranthene	630U	ug/kg
Benzo(k)fluoranthene	630U	ug/kg
Acenaphthylene	630U	ug/kg
Chrysene	630U	ug/kg
Retene	240J*	ug/kg
4,6-Dinitro-2-methylph+	REJ	ug/kg
1,3-Dichlorobenzene	630U	ug/kg
2,6-Dinitrotoluene	1600U	ug/kg
N-Nitroso-di-n-Propyla+	630UJ	ug/kg
4-Chlorophenyl-phenyle+	630U	ug/kg
BIS(2OCHLOROISOPROPYL)+	630UJ	ug/kg
Surrog: 2-Fluorobiphen+	105	% Recov
Surrog: 2-Fluorophenol	52	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352361 Description: SS002 Source: Sediment (General)

Begin Date: 92/08/25 11:00

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Surrog: D14-Terphenyl	100	% Recov
PYRENE-D10 (SS)	84	% Recov
Surrog: D5-Nitrobenzene	70	% Recov
Surrog: D5-Phenol	0	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
2-HEPTANOL ACETATE	2200NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	14000NJ*	ug/kg
1-HEXACOSANOL	1100NJ*	ug/kg
2-Hexanone	4000NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	4200NJ*	ug/kg
2-HEXANOL	4400NJ*	ug/kg
PHENANTHRENE, 4-METHYL-	780NJ*	ug/kg
2-CYCLOHEXEN-1-ONE, 3,+	1300NJ*	ug/kg
CYCLOPENTANOL, 1-METHY+	3900NJ*	ug/kg
NAPHTHALENE, 2-(1-METH+	2000NJ*	ug/kg
NAPHTHALENE, 1,6,7-TRI+	2500NJ*	ug/kg
ERGOSTA-7,22-DIEN-3-OL+	670NJ*	ug/kg
PHENANTHRENE, 2-METHYL-	520NJ*	ug/kg
NAPHTHALENE, 1,3,6-TRI+	930NJ*	ug/kg
PHENANTHRENE, 2,3-DIME+	1700NJ*	ug/kg
UNKNOWN HYDROCARBON 1	1200NJ*	ug/kg
UNKNOWN HYDROCARBON 2	2300NJ*	ug/kg
UNKNOWN HYDROCARBON 3	8800NJ*	ug/kg
UNKNOWN HYDROCARBON 4	2700NJ*	ug/kg
UNKNOWN HYDROCARBON 5	2700NJ*	ug/kg
UNKNOWN COMPOUND 1	1300NJ*	ug/kg
UNKNOWN COMPOUND 2	940NJ*	ug/kg
UNKNOWN COMPOUND 3	640NJ*	ug/kg
UNKNOWN COMPOUND 4	5600NJ*	ug/kg
UNKNOWN COMPOUND 5	860NJ*	ug/kg
UNKNOWN COMPOUND 6	660NJ*	ug/kg
UNKNOWN COMPOUND 7	970NJ*	ug/kg
UNKNOWN COMPOUND 8	1200NJ*	ug/kg
UNKNOWN COMPOUND 9	7200NJ*	ug/kg
UNKNOWN COMPOUND 10	3800NJ*	ug/kg
2-HEXANONE, 6-BROMO-	660NJ*	ug/kg
PENTANE, 1,3-EPOXY-4-M+	1700NJ*	ug/kg
OXIRANE, 2,2-DIMETHYL-+	1300NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	3400NJ*	ug/kg
1-HEXADECANOL	760NJ*	ug/kg

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
HEXANE, 1-PROPOXY-	1700NJ*	ug/kg
2-PENTENE, 5-(PENTYLOX+	1100NJ*	ug/kg
2-CYCLOHEXEN-1-ONE, 3,+	3800NJ*	ug/kg
KAUREN-18-OL, ACETATE,+	930NJ*	ug/kg
2,6-DIMETHYL-6-NITRO-2+	360NJ*	ug/kg
NAPHTHALENE, 1,2(OR 2,+	220NJ*	ug/kg

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	6U	ug/kg
Chlordane (Tech)	65U	ug/kg
gamma-BHC (Lindane)	6U	ug/kg
Dieldrin	6U	ug/kg
Endrin	6U	ug/kg
Methoxychlor	6U	ug/kg
4,4'-DDD	6U	ug/kg
4,4'-DDE	6U	ug/kg
Heptachlor	6U	ug/kg
Aldrin	6U	ug/kg
alpha-BHC	6U	ug/kg
beta-BHC	6U	ug/kg
delta-BHC	6U	ug/kg
Endosulfan I	6U	ug/kg
Heptachlor Epoxide	6U	ug/kg
Endosulfan sulfate	6U	ug/kg
Endrin aldehyde	6U	ug/kg
Toxaphene	390U	ug/kg
PCB - 1260	320 *	ug/kg
PCB - 1254	65U	ug/kg
PCB - 1221	65U	ug/kg
PCB - 1232	65U	ug/kg
PCB - 1248	65U	ug/kg
PCB - 1016	65U	ug/kg
Endosulfan II	6U	ug/kg
PCB - 1242	65U	ug/kg
Endrin Ketone	6U	ug/kg
Surrog: 2,4,6-Tribromo+	114	% Recov
DIBUTYLCHLORENDATE (SS)	51	% Recov
DECACHLOROBIPHENYL	68	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352362 Description: SS003 Source: Sediment (General)

Begin Date: 92/08/25 10:25

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	1470 *	mg/kg-dr
Magnesium	Mg-Sedmt	3590 *	mg/kg-dr
Sodium	Na-Sedmt	371B*	mg/kg-dr
Potassium	K -Sedmt	849 *	mg/kg-dr
Arsenic	As-Sedmt	11.0P*	mg/kg-dr
Barium	Ba-Sedmt	31.3 *	mg/kg-dr
Beryllium	Be-Sedmt	0.26P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.20U	mg/kg-dr
Chromium	Cr-Sedmt	6.39 *	mg/kg-dr
Cobalt	Co-Sedmt	6.08 *	mg/kg-dr
Copper	Cu-Sedmt	17.0 *	mg/kg-dr
Lead	Pb-Sedmt	9.2P*	mg/kg-dr
Mangnese	Mn-Sedmt	264 *	mg/kg-dr
Nickel	Ni-Sedmt	8.45 *	mg/kg-dr
Silver	Ag-Sedmt	2.50N*	mg/kg-dr
Vanadium	V -Sedmt	11.5 *	mg/kg-dr
Zinc	Zn-Sedmt	40.2 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	5840 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	13200 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	2UJ	ug/kg
Acetone	11UJ	ug/kg
Chloroform	2U	ug/kg
Benzene	2U	ug/kg
1,1,1-Trichloroethane	2UJ	ug/kg
Bromomethane	2U	ug/kg
Chloromethane	2UJ	ug/kg
Dibromomethane	2U	ug/kg
Bromochloromethane	2U	ug/kg
Chloroethane	2UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Vinyl Chloride	2UJ	ug/kg
Methylene Chloride	11U	ug/kg
Carbon Disulfide	11U	ug/kg
Bromoform	2U	ug/kg
Bromodichloromethane	2UJ	ug/kg
1,1-Dichloroethane	2U	ug/kg
1,1-Dichloroethane	2U	ug/kg
Trichlorofluoromethane	2UJ	ug/kg
Methane, Dichlorodiflu+	11UJ	ug/kg
1,2-Dichloropropane	2U	ug/kg
2-Butanone	11U	ug/kg
1,1,2-Trichloroethane	2U	ug/kg
Ethene, trichloro-	2U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	2U	ug/kg
1,2,3-Trichlorobenzene	2U	ug/kg
Hexachlorobutadiene	2U	ug/kg
Naphthalene	2U	ug/kg
2-Chlorotoluene	2U	ug/kg
1,2-Dichlorobenzene	2U	ug/kg
1,2,4-Trimethylbenzene	2U	ug/kg
1,2-Dibromo-3-chloropr+	11U	ug/kg
1,2,3-Trichloropropane	2U	ug/kg
Tert-Butylbenzene	2U	ug/kg
Isopropylbenzene (Cume+	2U	ug/kg
p-Isopropyltoluene	2U	ug/kg
Ethylbenzene	2U	ug/kg
BENZENE, ETHENYL-(STYR+	2U	ug/kg
BENZENE, PROPYL-	2U	ug/kg
Butylbenzene	2U	ug/kg
4-Chlorotoluene	2U	ug/kg
1,4-Dichlorobenzene	2U	ug/kg
1,2-Dibromoethane (EDB)	2U	ug/kg
1,2-Dichloroethane	2UJ	ug/kg
4-Methyl-2-Pentanone(M+	2U	ug/kg
1,3,5-Trimethylbenzene	2UJ	ug/kg
Bromobenzene	2U	ug/kg
Toluene	2U	ug/kg
Chlorobenzene	2U	ug/kg
1,2,4-Trichlorobenzene	2U	ug/kg
Dibromochloromethane	2U	ug/kg
Tetrachloroethene	2U	ug/kg
Sec-Butylbenzene	2U	ug/kg
1,3-Dichloropropane	2U	ug/kg
Cis-1,2-Dichloroethene	2U	ng/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
trans-1,2-Dichloroethe+	2U	ug/kg
1,3-Dichlorobenzene	2U	ug/kg
1,1-Dichloropropene	2UJ	ug/kg
2-Hexanone	2U	ug/kg
2,2-Dichloropropane	2U	ug/kg
Ethane, 1,1,1,2-Tetrac+	2U	ug/kg
Total Xylenes	2U	ug/kg
cis-1,3-Dichloropropene	2U	ug/kg
trans-1,3-Dichloroprop+	2U	ug/kg
p-Bromofluorobenzene	102	% Recov
FLUOROBENZENE	100	% Recov
d8-Toluene	93	% Recov
d4-1,2-Dichlorobenzene+	109	% Recov
1,2-Dichloroethane-d4 +	111	% Recov

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	130U	ug/kg
2,4-Dinitrophenol	1600UJ	ug/kg
Dibenzo(a,h)anthracene	320U	ug/kg
Benzo(a)anthracene	17J*	ug/kg
4-Chloro-3-Methylphenol	640U	ug/kg
Benzoic acid	1600UJ	ug/kg
Hexachloroethane	130U	ug/kg
Hexachlorocyclopentadi+	640U	ug/kg
Isophorone	7J*	ug/kg
Acenaphthene	130U	ug/kg
Diethylphthalate	130U	ug/kg
Di-n-Butylphthalate	130U	ug/kg
Phenanthrene	9NJ*	ug/kg
Butylbenzylphthalate	130U	ug/kg
N-Nitrosodiphenylamine	1600UJ	ug/kg
Fluorene	130U	ug/kg
Carbazole	640UJ	ug/kg
Hexachlorobutadiene	320U	ug/kg
Pentachlorophenol	640UJ	ug/kg
2,4,6-Trichlorophanol	320U	ug/kg
2-Nitroaniline	320U	ug/kg
2-Nitrophenol	320U	ug/kg
Naphthalene, 1-Methyl-	130U	ug/kg
Naphthalene	130U	ug/kg
2-Methylnaphthalene	130U	ug/kg

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352362 Description: SS003 Source: Sediment (General)

Begin Date: 92/08/25 10:25

B/N/Acid Scan *** Continued ***	Sediment Result	Units
2-Chloronaphthalene	130U	ug/kg
3,3'-Dichlorobenzidine	3200U	ug/kg
2-Methylphenol	130U	ug/kg
1,2-Dichlorobenzene	130U	ug/kg
o-Chlorophenol (2-Chlo+	130U	ug/kg
2,4,5-Trichlorophenol	640U	ug/kg
Nitrobenzene	130U	ug/kg
3-Nitroaniline	REJ	ug/kg
4-Nitroaniline	1600U	ug/kg
4-Nitrophenol	1600UJ	ug/kg
Benzyl Alcohol	640U	ug/kg
4-Bromophenyl-phenylet+	130U	ug/kg
2,4-Dimethylphenol	130UJ	ug/kg
4-Methylphenol	130U	ug/kg
1,4-Dichlorobenzene	130U	ug/kg
4-Chloroaniline	1600UJ	ug/kg
Phenol	130U	ug/kg
bis(2-Chloroethyl)Ether	130U	ug/kg
bis(2-Chloroethoxy)Met+	130U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	980U	ug/kg
Di-n-Octyl Phthelate	130U	ug/kg
Hexachlorobenzene	130U	ug/kg
Anthracene	130U	ug/kg
1,2,4-Trichlorobenzene	130U	ug/kg
2,4-Dichlorophenol	130U	ug/kg
2,4-Dinitrotoluene	320U	ug/kg
Pyrene	8NJ*	ug/kg
Dimethylphthalate	130U	ug/kg
Dibenzofuran	130U	ug/kg
Benzo(ghi)perylene	130U	ug/kg
Indeno(1,2,3-cd)pyrene	130U	ug/kg
Benzo(b)fluoranthene	130U	ug/kg
Fluoranthene	6NJ*	ug/kg
Benzo(k)fluoranthene	130U	ug/kg
Acenaphthylene	130U	ug/kg
Chrysene	12J*	ug/kg
Retene	130U	ug/kg
4,6-Dinitro-2-methylph+	1600UJ	ug/kg
1,3-Dichlorobenzene	130U	ug/kg
2,6-Dinitrotoluene	320U	ug/kg
N-Nitroso-di-n-Propyla+	130UJ	ug/kg
4-Chlorophenyl-phenyle+	130U	ug/kg
BIS(2OCHLOROISOPROPYL)+	130UJ	ug/kg
Surrog: 2-Fluorobiphen+	76	% Recov

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Surrog: 2-Fluorophanol	22	% Recov
Surrog: D14-Terphenyl	92	% Recov
PYRENE-D10 (SS)	89	% Recov
Surrog: D5-Nitrobenzene	73	% Recov
Surrog: D5-Phenol	31	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
CHOLESTEROL	240NJ*	ug/kg
ETHANE, 1,1,2,2-TETRAC+	750NJ*	ug/kg
.GAMMA.-SITOSTEROL	140NJ*	ug/kg
HEXANEDIOIC ACID, BIS(+	58NJ*	ug/kg
Decanoic Acid, Methyl +	70NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	6400NJ*	ug/kg
CYCLOHEXADECANE	320NJ*	ug/kg
2-Hexanone	800NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	820NJ*	ug/kg
3-HEXANOL	1400NJ*	ug/kg
2-HEXANOL	1400NJ*	ug/kg
9-HEXADECENOIC ACID, M+	50NJ*	ug/kg
2-CYCLOHEXEN-1-ONE, 3,+	390NJ*	ug/kg
CYCLOPENTANOL, 1-METHY+	1100NJ*	ug/kg
2-HEXANONE, 6-(ACETYLO+	1300NJ*	ug/kg
2-PENTANONE, 5-(ACETYL+	1500NJ*	ug/kg
CYCLOPENTENE, 1-ISOPRO+	240NJ*	ug/kg
UNKNOWN HYDROCARBON 1	67NJ*	ug/kg
UNKNOWN HYDROCARBON 2	130NJ*	ug/kg
UNKNOWN HYDROCARBON 3	250NJ*	ug/kg
UNKNOWN HYDROCARBON 4	290NJ*	ug/kg
UNKNOWN COMPOUND 1	470NJ*	ug/kg
UNKNOWN COMPOUND 2	150NJ*	ug/kg
UNKNOWN COMPOUND 3	300NJ*	ug/kg
UNKNOWN COMPOUND 3	95NJ*	ug/kg
2-HEXANONE, 6-BROMO-	850NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	260NJ*	ug/kg
1-HEXADECANOL	100NJ*	ug/kg
1,E-4,Z-8-DODECATRIENE	89NJ*	ug/kg

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	5U	ug/kg
Chlordane (Tech)	52U	ug/kg
gamma-BHC (Lindane)	5U	ug/kg
Dieldrin	5U	ug/kg
Endrin	5U	ug/kg
Methoxychlor	5U	ug/kg
4,4'-DDD	5U	ug/kg
4,4'-DDE	5U	ug/kg
Haptachlor	5U	ug/kg
Aldrin	5U	ug/kg
alpha-BHC	5U	ug/kg
beta-BHC	5U	ug/kg
delta-BHC	5U	ug/kg
Endosulfan I	5U	ug/kg
Heptachlor Epoxide	5U	ug/kg
Endosulfen sulfate	5U	ug/kg
Endrin aldehyde	5U	ug/kg
Toxaphene	310U	ug/kg
PCB - 1260	52U	ug/kg
PCB - 1254	52U	ug/kg
PCB - 1221	52U	ug/kg
PCB - 1232	52U	ug/kg
PCB - 1248	52U	ug/kg
PCB - 1016	52U	ug/kg
Endosulfan II	5U	ug/kg
PCB - 1242	52U	ug/kg
Endrin Ketone	5U	ug/kg
Surrog: 2,4,6-Tribromo+	96	% Recov
DIBUTYLCHLORENDATE (SS)	50	% Recov
DECACHLOROBIPHENYL	61	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352363 Description: SS004 Source: Sediment (General)

Begin Date: 92/08/25 11:30

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.023N*	mg/kg-wt

Metals - Specified Matrix Spike #1		Sediment Result	Units
Selenium	Se-Sedmt	83.4	% Recov
Thallium	Tl-Sedmt	73.0	% Recov

Metals - Specified Matrix Spike #2		Sediment Result	Units
Selenium	Se-Sedmt	83.2	% Recov
Thallium	Tl-Sedmt	73.4	% Recov

Metals - Specified Duplicate #1		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UNW	mg/kg-dr

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	1800 *	mg/kg-dr
Magnesium	Mg-Sedmt	4010 *	mg/kg-dr
Sodium	Na-Sedmt	422B*	mg/kg-dr
Potassium	K -Sedmt	792 *	mg/kg-dr
Arsenic	As-Sedmt	24.1 *	mg/kg-dr
Barium	Ba-Sedmt	36.7 *	mg/kg-dr
Beryllium	Be-Sedmt	0.35P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.38P*	mg/kg-dr
Chromium	Cr-Sedmt	8.62 *	mg/kg-dr
Cobalt	Co-Sedmt	6.03 *	mg/kg-dr
Copper	Cu-Sedmt	107 *	mg/kg-dr
Lead	Pb-Sedmt	165 *	mg/kg-dr
Manganese	Mn-Sedmt	164 *	mg/kg-dr
Nickel	Ni-Sedmt	15.2 *	mg/kg-dr
Silver	Ag-Sedmt	3.36N*	mg/kg-dr
Vanadium	V -Sedmt	25.5 *	mg/kg-dr

Metals - ICP Scan *** Continued ***		Sediment Result	Units
Zinc	Zn-Sedmt	63.9 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	6340 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	17900 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

Metals - ICP Scan Duplicate #1		Sediment Result	Units
Calcium	Ca-Sedmt	1660 *	mg/kg-dr
Magnesium	Mg-Sedmt	3910 *	mg/kg-dr
Sodium	Na-Sedmt	535B*	mg/kg-dr
Potassium	K -Sedmt	902 *	mg/kg-dr
Arsenic	As-Sedmt	23.1 *	mg/kg-dr
Barium	Ba-Sedmt	36.0 *	mg/kg-dr
Beryllium	Be-Sedmt	0.34P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.43P*	mg/kg-dr
Chromium	Cr-Sedmt	8.66 *	mg/kg-dr
Cobalt	Co-Sedmt	5.90 *	mg/kg-dr
Copper	Cu-Sedmt	127 *	mg/kg-dr
Lead	Pb-Sedmt	104 *	mg/kg-dr
Manganese	Mn-Sedmt	162 *	mg/kg-dr
Nickel	Ni-Sedmt	15.3 *	mg/kg-dr
Silver	Ag-Sedmt	3.49N*	mg/kg-dr
Vanadium	V -Sedmt	24.7 *	mg/kg-dr
Zinc	Zn-Sedmt	75.1 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	6110 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	19000 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	2U	ug/kg
Acetone	110J*	ug/kg
Chloroform	2U	ug/kg
Benzene	2U	ug/kg
1,1,1-Trichloroethane	2U	ug/kg
Bromomethane	2U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Chloromethane	2U	ug/kg
Dibromomethane	2U	ug/kg
Bromochloromethane	2U	ug/kg
Chloroethane	2U	ug/kg
Vinyl Chloride	2U	ug/kg
Methylene Chloride	12U	ug/kg
Carbon Disulfide	12U	ug/kg
Bromoform	2UJ	ug/kg
Bromodichloromethane	2U	ug/kg
1,1-Dichloroethane	2U	ug/kg
1,1-Dichloroethene	2U	ug/kg
Trichlorofluoromethane	2U	ug/kg
Methane, Dichlorodiflu+	12UJ	ug/kg
1,2-Dichloropropane	2U	ug/kg
2-Butanone	8J*	ug/kg
1,1,2-Trichloroethane	2U	ug/kg
Ethane, trichloro-	2U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	2U	ug/kg
1,2,3-Trichlorobenzene	2UJ	ug/kg
Hexachlorobutadiene	2UJ	ug/kg
Naphthalene	2UJ	ug/kg
2-Chlorotoluene	2UJ	ug/kg
1,2-Dichlorobenzene	2UJ	ug/kg
1,2,4-Trimethylbenzene	2UJ	ug/kg
1,2-Dibromo-3-chloropr+	12UJ	ug/kg
1,2,3-Trichloropropane	2UJ	ug/kg
Tert-Butylbenzene	2UJ	ug/kg
Isopropylbenzene (Cume+	2UJ	ug/kg
p-Isopropyltoluene	2UJ	ug/kg
Ethylbenzene	2U	ug/kg
BENZENE, ETHENYL-(STYR+	2U	ug/kg
BENZENE, PROPYL-	2UJ	ug/kg
Butylbenzene	2UJ	ug/kg
4-Chlorotoluene	2UJ	ug/kg
1,4-Dichlorobenzene	2UJ	ug/kg
1,2-Dibromoethane (EDB)	2U	ug/kg
1,2-Dichloroethane	2U	ug/kg
4-Methyl-2-Pentanone(M+	2U	ug/kg
1,3,5-Trimethylbenzene	2UJ	ug/kg
Bromobenzene	2UJ	ug/kg
Toluene	2U	ug/kg
Chlorobenzene	0.6J*	ug/kg
1,2,4-Trichlorobenzene	2UJ	ug/kg
Dibromochloromethane	2U	ug/kg

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352363 Description: SS004 Source: Sediment (General)

Begin Date: 92/08/25 11:30

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Tetrachloroethene	2U	ug/kg
Sec-Butylbenzene	2UJ	ug/kg
1,3-Dichloropropane	2U	ug/kg
Cis-1,2-Dichloroethene	2U	ug/kg
trans-1,2-Dichloroethe+	2U	ug/kg
1,3-Dichlorobenzene	2UJ	ug/kg
1,1-Dichloropropane	2U	ug/kg
2-Hexanone	2U	ug/kg
2,2-Dichloropropene	2U	ug/kg
Ethene, 1,1,1,2-Tetrac+	2U	ug/kg
Total Xylenes	2UJ	ug/kg
cis-1,3-Dichloropropene	2U	ug/kg
trans-1,3-Dichloroprop+	2U	ug/kg
p-Bromofluorobenzene	90	% Recov
FLUOROBENZENE	95	% Recov
d8-Toluene	109	% Recov
d4-1,2-Dichlorobenzene+	119	% Recov
1,2-Dichloroethane-d4 +	147	% Recov

Tent Ident - VOA Sca	Sediment Result	Units
UNKNOWN HYDROCARBONS (+	5500NJ*	ug/kg
OCTANE, 2,3,7-TRIMETHY+	620NJ*	ug/kg

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	1000U	ug/kg
2,4-Dinitrophenol	13000UJ	ug/kg
Dibenzo(a,h)anthracene	2600U	ug/kg
Benzo(a)anthracene	80J*	ug/kg
4-Chloro-3-Methylphenol	5200U	ug/kg
Benzoic acid	13000UJ	ug/kg
Hexachloroethane	1000U	ug/kg
Hexachlorocyclopentadi+	5200UJ	ug/kg
Isophorone	1000U	ug/kg
Acenaphthene	1000U	ug/kg
Diethylphthalate	1000U	ug/kg
Di-n-Butylphthalate	1000U	ug/kg
Phenanthrene	310JN*	ug/kg
Butylbenzylphthalate	2600U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
N-Nitrosodiphenylamine	2900J*	ug/kg
Fluorene	1000U	ug/kg
Carbazole	5200UJ	ug/kg
Hexachlorobutadiene	2600U	ug/kg
Pentachlorophenol	5200UJ	ug/kg
2,4,6-Trichlorophenol	2600UJ	ug/kg
2-Nitroaniline	2600U	ug/kg
2-Nitrophenol	2600U	ug/kg
Naphthalene, 1-Methyl-	1000U	ug/kg
Naphthalene	1000U	ug/kg
2-Methylnaphthalene	89NJ*	ug/kg
2-Chloronaphthalene	1000U	ug/kg
3,3'-Dichlorobenzidine	26000U	ug/kg
2-Methylphenol	1000U	ug/kg
1,2-Dichlorobenzene	1000U	ug/kg
o-Chlorophenol (2-Chlo+	1000U	ug/kg
2,4,5-Trichlorophenol	5100UJ	ug/kg
Nitrobenzene	1000U	ug/kg
3-Nitroaniline	REJ	ug/kg
4-Nitroaniline	13000UJ	ug/kg
4-Nitrophenol	13000UJ	ug/kg
Benzyl Alcohol	5200UJ	ug/kg
4-Bromophenyl-phenylet+	1000U	ug/kg
2,4-Dimethylphenol	1000U	ug/kg
4-Methylphenol	1000U	ug/kg
1,4-Dichlorobenzene	1000U	ug/kg
4-Chloroaniline	13000UJ	ug/kg
Phenol	1000U	ug/kg
bis(2-Chloroethyl)Ether	1000U	ug/kg
bis(2-Chloroethoxy)Met+	1000U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	20000 *	ug/kg
Di-n-Octyl Phthalate	1000U	ug/kg
Hexachlorobenzene	1000UJ	ug/kg
Anthracene	1000U	ug/kg
1,2,4-Trichlorobenzene	1000U	ug/kg
2,4-Dichlorophenol	1000U	ug/kg
2,4-Dinitrotoluene	2600UJ	ug/kg
Pyrene	630J*	ug/kg
Dimethylphthalate	1000U	ug/kg
Dibenzofuran	1000U	ug/kg
Benzo(ghi)perylene	1000U	ug/kg
Indeno(1,2,3-cd)pyrene	1000U	ug/kg
Benzo(b)fluoranthene	1000U	ug/kg
Fluoranthene	190JN*	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Benzo(k)fluoranthene	1000U	ug/kg
Acenaphthylene	1000U	ug/kg
Chrysene	610J*	ug/kg
Retene	1000U	ug/kg
4,6-Dinitro-2-methylph+	13000UJ	ug/kg
1,3-Dichlorobenzene	1000U	ug/kg
2,6-Dinitrotoluene	2600U	ug/kg
N-Nitroso-di-n-Propyla+	1000UJ	ug/kg
4-Chlorophenyl-phenyle+	1000UJ	ug/kg
BIS(2OCHLOROISOPROPYL)+	1000UJ	ug/kg
Surrog: 2-Fluorobiphen+	83	% Recov
Surrog: 2-Fluorophenol	20	% Recov
Surrog: D14-Terphenyl	95	% Recov
PYRENE-D10 (SS)	70	% Recov
Surrog: D5-Nitrobenzene	39	% Recov
Surrog: D5-Phenol	28	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
2-PENTANONE	1700NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	14000NJ*	ug/kg
NAPHTHALENE, 1-METHYL-+	2600NJ*	ug/kg
CHOLEST-5-ENE, 3-BROMO+	470NJ*	ug/kg
2-Hexanone	4400NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	930NJ*	ug/kg
3-HEXANOL	3300NJ*	ug/kg
2-HEXANOL	4200NJ*	ug/kg
URS-12-EN-3-OL, (3.BET+	560NJ*	ug/kg
NAPHTHALENE, 2,3,6-TRI+	1200NJ*	ug/kg
2,8-DIMETHYLDIBENZO(B,+	1100NJ*	ug/kg
CYCLOPENTANOL, 1-METHY+	4300NJ*	ug/kg
NAPHTHALENE, 1,4,5-TRI+	1200NJ*	ug/kg
UNKNOWN HYDROCARBON 1	1300NJ*	ug/kg
UNKNOWN HYDROCARBON 2	4500NJ*	ug/kg
UNKNOWN HYDROCARBON 3	10000NJ*	ug/kg
UNKNOWN HYDROCARBON 4	7100NJ*	ug/kg
UNKNOWN COMPOUND 1	280NJ*	ug/kg
UNKNOWN COMPOUND 2	460NJ*	ug/kg
UNKNOWN COMPOUND 3	520NJ*	ug/kg
UNKNOWN COMPOUND 4	530NJ*	ug/kg
UNKNOWN COMPOUND 5	400NJ*	ug/kg
UNKNOWN COMPOUND 6	78NJ*	ug/kg

(Continued on next page)

Project: TEC-375A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352363 Description: SS004 Source: Sediment (General)

Begin Date: 92/08/25 11:30

Tent Ident - B/N/Acl *** Continued ***	Sediment Result	Units
UNKNOWN COMPOUND 7	1800NJ*	ug/kg
UNKNOWN COMPOUND 8	200NJ*	ug/kg
UNKNOWN COMPOUND 9	420NJ*	ug/kg
UNKNOWN COMPOUND 10	2700NJ*	ug/kg
UNKNOWN COMPOUND 11	4100NJ*	ug/kg
2-HEXANONE, 6-BROMO-	910NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	530NJ*	ug/kg
NONACOSANOL	940NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	1800NJ*	ug/kg

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	5U	ug/kg
Chlordane (Tech)	52U	ug/kg
gamma-BHC (Lindane)	5U	ug/kg
Dieldrin	5UJ	ug/kg
Endrin	5UJ	ug/kg
Methoxychlor	5U	ug/kg
4,4'-DDD	5U	ug/kg
4,4'-DDE	5U	ug/kg
Heptachlor	5U	ug/kg
Aldrin	5U	ug/kg
alpha-BHC	5U	ug/kg
beta-BHC	5U	ug/kg
delta-BHC	5U	ug/kg
Endosulfan I	5UJ	ug/kg
Heptachlor Epoxide	5U	ug/kg
Endosulfan sulfate	5U	ug/kg
Endrin aldehyde	5U	ug/kg
Toxaphene	310U	ug/kg
PCB - 1260	260 *	ug/kg
PCB - 1254	52U	ug/kg
PCB - 1221	52U	ug/kg
PCB - 1232	52U	ug/kg
PCB - 1248	52U	ug/kg
PCB - 1016	52U	ug/kg
Endosulfan II	5U	ug/kg
PCB - 1242	52U	ug/kg
Endrin Ketone	5UJ	ug/kg
Surrog: 2,4,6-Tribromo+	121	% Recov
DIBUTYLCHLORENDATE (SS)	66	% Recov
DECACHLOROBIPHENYL	98	% Recov

Pest/PCB - PP Scan Matrix Spike #1	Sediment Result	Units
4,4'-DDT	64	% Recov
Chlordane (Tech)	95	% Recov
gamma-BHC (Lindane)	78	% Recov
Dieldrin	NAF	% Recov
Endrin	NAF	% Recov
Methoxychlor	34J	% Recov
4,4'-DDD	NAF	% Recov
4,4'-DDE	NAF	% Recov
Heptachlor	133	% Recov
Aldrin	95	% Recov
alpha-BHC	NAF	% Recov
beta-BHC	NAF	% Recov
delta-BHC	NAF	% Recov
Endosulfan I	57J	% Recov
Heptachlor Epoxide	NAF	% Recov
Endosulfan sulfate	NAF	% Recov
Endrin aldehyde	NAF	% Recov
Toxaphene	NAF	% Recov
PCB - 1260	NAF	% Recov
PCB - 1254	NAF	% Recov
PCB - 1221	NAF	% Recov
PCB - 1232	NAF	% Recov
PCB - 1248	NAF	% Recov
PCB - 1016	NAF	% Recov
Endosulfan II	NAF	% Recov
PCB - 1242	NAF	% Recov
Endrin Ketone	NAF	% Recov
Surrog: 2,4,6-Tribromo+	104	% Recov
DIBUTYLCHLORENDATE (SS)	107	% Recov
DECACHLOROBIPHENYL	118	% Recov

Pest/PCB - PP Scan Matrix Spike #2	Sediment Result	Units
4,4'-DDT	103	% Recov
Chlordane (Tech)	70	% Recov
gamma-BHC (Lindane)	73	% Recov
Dieldrin	NAF	% Recov
Endrin	NAF	% Recov
Methoxychlor	35J	% Recov
4,4'-DDD	NAF	% Recov
4,4'-DDE	NAF	% Recov
Heptachlor	146	% Recov
Aldrin	113	% Recov

Pest/PCB - PP Scan *** Continued *** Matrix Spike #2	Sediment Result	Units
alpha-BHC	NAF	% Recov
beta-BHC	NAF	% Recov
delta-BHC	NAF	% Recov
Endosulfan I	31J	% Recov
Heptachlor Epoxide	NAF	% Recov
Endosulfan sulfate	NAF	% Recov
Endrin aldehyde	NAF	% Recov
Toxaphene	NAF	% Recov
PCB - 1260	NAF	% Recov
PCB - 1254	NAF	% Recov
PCB - 1221	NAF	% Recov
PCB - 1232	NAF	% Recov
PCB - 1248	NAF	% Recov
PCB - 1016	NAF	% Recov
Endosulfan II	NAF	% Recov
PCB - 1242	NAF	% Recov
Endrin Ketone	NAF	% Recov
Surrog: 2,4,6-Tribromo+	110	% Recov
DIBUTYLCHLORENDATE (SS)	NAF	% Recov
DECACHLOROBIPHENYL	134	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352364 Description: SS01-1 Source: Sediment (General)

Begin Date: 92/08/26 11:10

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.065N*	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	4220 *	mg/kg-dr
Mgneium	Mg-Sedmt	2720 *	mg/kg-dr
Sodium	Na-Sedmt	666B*	mg/kg-dr
Potasium	K -Sedmt	948 *	mg/kg-dr
Arsenic	As-Sedmt	18.5 *	mg/kg-dr
Barium	Ba-Sedmt	145 *	mg/kg-dr
Berylium	Be-Sedmt	0.46P*	mg/kg-dr
Cadmium	Cd-Sedmt	1.58 *	mg/kg-dr
Chromium	Cr-Sedmt	16.1 *	mg/kg-dr
Cobalt	Co-Sedmt	5.97 *	mg/kg-dr
Copper	Cu-Sedmt	180 *	mg/kg-dr
Lead	Pb-Sedmt	235 *	mg/kg-dr
Mangnese	Mn-Sedmt	326 *	mg/kg-dr
Nickel	Ni-Sedmt	16.6 *	mg/kg-dr
Silver	Ag-Sedmt	5.02N*	mg/kg-dr
Vanadium	V -Sedmt	21.5 *	mg/kg-dr
Zinc	Zn-Sedmt	187 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	5500 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	20200 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	4U	ug/kg
Acetone	10U	ug/kg
Chloroform	4U	ug/kg
Benzene	4U	ug/kg
1,1,1-Trichloroethane	4U	ug/kg
Bromomethane	4U	ug/kg
Chloromethane	4U	ug/kg
Dibromomethane	4U	ug/kg
Bromochloromethane	4U	ug/kg
Chloroethane	4U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Vinyl Chloride	4U	ug/kg
Methylene Chloride	18U	ug/kg
Carbon Disulfide	18U	ug/kg
Bromoform	4UJ	ug/kg
Bromodichloromethane	4U	ug/kg
1,1-Dichloroethane	4U	ug/kg
1,1-Dichloroethene	4U	ug/kg
Trichlorofluoromethane	4U	ug/kg
Methane, Dichlorodiflu+	8J*	ug/kg
1,2-Dichloropropane	4U	ug/kg
2-Butanone	18U	ug/kg
1,1,2-Trichloroethane	4U	ug/kg
Ethane, trichloro-	4U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	4U	ug/kg
1,2,3-Trichlorobenzene	4UJ	ug/kg
Hexachlorobutadiene	4UJ	ug/kg
Naphthalene	4UJ	ug/kg
2-Chlorotoluene	4UJ	ug/kg
1,2-Dichlorobenzene	4UJ	ug/kg
1,2,4-Trimethylbenzene	4UJ	ug/kg
1,2-Dibromo-3-chloropr+	18UJ	ug/kg
1,2,3-Trichloropropane	4UJ	ug/kg
Tert-Butylbenzene	4UJ	ug/kg
Isopropylbenzene (Cume+	4UJ	ug/kg
p-Isopropyltoluene	4UJ	ug/kg
Ethylbenzene	4U	ug/kg
BENZENE, ETHENYL-(STYR+	4U	ug/kg
BENZENE, PROPYL-	4UJ	ug/kg
Butylbenzene	4UJ	ug/kg
4-Chlorotoluene	4UJ	ug/kg
1,4-Dichlorobenzene	4UJ	ug/kg
1,2-Dibromoethane (EDB)	4U	ug/kg
1,2-Dichloroethane	4U	ug/kg
4-Methyl-2-Pentanone(M+	4U	ug/kg
1,3,5-Trimethylbenzene	4UJ	ug/kg
Bromobenzene	4UJ	ug/kg
Toluene	4U	ug/kg
Chlorobenzene	4U	ug/kg
1,2,4-Trichlorobenzene	4UJ	ug/kg
Dibromochloromethane	4U	ug/kg
Tetrachloroethene	4U	ug/kg
Sec-Butylbenzene	4UJ	ug/kg
1,3-Dichloropropane	4U	ug/kg
Cis-1,2-Dichloroethene	4U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
trans-1,2-Dichloroethe+	4U	ug/kg
1,3-Dichlorobenzene	4UJ	ug/kg
1,1-Dichloropropane	4U	ug/kg
2-Hexanone	4U	ug/kg
2,2-Dichloropropane	4U	ug/kg
Ethane, 1,1,1,2-Tetrac+	4U	ug/kg
Total Xylenes	4UJ	ug/kg
cis-1,3-Dichloropropene	4U	ug/kg
trans-1,3-Dichloroprop+	4U	ug/kg
p-Bromofluorobenzene	83	% Recov
FLUOROBENZENE	96	% Recov
d8-Toluene	114	% Recov
d4-1,2-Dichlorobenzene+	92	% Recov
1,2-Dichloroethane-d4 +	143	% Recov

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	110J*	ug/kg
2,4-Dinitrophenol	6400UJ	ug/kg
Dibenzo(a,h)anthracene	1300U	ug/kg
Benzo(a)anthracene	140J*	ug/kg
4-Chloro-3-Methylphenol	2500U	ug/kg
Benzoic acid	6400UJ	ug/kg
Hexachloroethane	490U	ug/kg
Hexachlorocyclopentadi+	2500UJ	ug/kg
Isophorone	490U	ug/kg
Acenaphthene	34J*	ug/kg
Diethylphthalate	490U	ug/kg
Di-n-Butylphthalate	490U	ug/kg
Phenanthrene	510 *	ug/kg
Butylbenzylphthalate	1300U	ug/kg
N-Nitrosodiphenylamine	74J*	ug/kg
Fluorene	31JN*	ug/kg
Carbazole	2500UJ	ug/kg
Hexachlorobutadiene	1300U	ug/kg
Pentachlorophenol	2500U	ug/kg
2,4,6-Trichlorophenol	1300U	ug/kg
2-Nitroaniline	1300U	ug/kg
2-Nitrophenol	1300U	ug/kg
Naphthalene, 1-Methyl-	140J*	ug/kg
Naphthalene	170J*	ug/kg
2-Methylnaphthalene	160J*	ug/kg

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352364 Description: SS01-1 Source: Sediment (General)

Begin Date: 92/08/26 11:10

B/N/Acid Scan *** Continued ***	Sediment Result	Units
2-Chloronaphthalene	490U	ug/kg
3,3'-Dichlorobenzidine	13000U	ug/kg
2-Methylphenol	490U	ug/kg
1,2-Dichlorobenzene	490U	ug/kg
o-Chlorophenol (2-Chlo+	490U	ug/kg
2,4,5-Trichlorophenol	2500U	ug/kg
Nitrobenzene	490U	ug/kg
3-Nitroaniline	6400UJ	ug/kg
4-Nitroaniline	6400UJ	ug/kg
4-Nitrophenol	6400UJ	ug/kg
Benzyl Alcohol	2500U	ug/kg
4-Bromophenyl-phenylet+	490U	ug/kg
2,4-Dimethylphenol	490U	ug/kg
4-Methylphenol	490U	ug/kg
1,4-Dichlorobenzene	490U	ug/kg
4-Chloroaniline	6400U	ug/kg
Phenol	490U	ug/kg
bis(2-Chloroethyl)Ether	68J*	ug/kg
bis(2-Chloroethoxy)Met+	490U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	490U	ug/kg
Di-n-Octyl Phthalate	490UJ	ug/kg
Hexachlorobenzene	490U	ug/kg
Anthracene	93J*	ug/kg
1,2,4-Trichlorobenzene	490U	ug/kg
2,4-Dichlorophenol	490U	ug/kg
2,4-Dinitrotoluene	1300U	ug/kg
Pyrene	460J*	ug/kg
Dimethylphthalate	490U	ug/kg
Dibenzofuran	160J*	ug/kg
Benzo(ghi)perylene	240J*	ug/kg
Indeno(1,2,3-cd)pyrene	160JN*	ug/kg
Benzo(b)fluoranthene	430J*	ug/kg
Fluoranthene	430J*	ug/kg
Benzo(k)fluoranthene	130J*	ug/kg
Acenaphthylene	16J*	ug/kg
Chrysene	440J*	ug/kg
Retene	240J*	ug/kg
4,6-Dinitro-2-methylph+	6400UJ	ug/kg
1,3-Dichlorobenzene	490U	ug/kg
2,6-Dinitrotoluene	1300U	ug/kg
N-Nitroso-di-n-Propyla+	490UJ	ug/kg
4-Chlorophenyl-phenyla+	490U	ug/kg
BIS(2OCHLOROISOPROPYL)+	490UJ	ug/kg
Surrog: 2-Fluorobiphen+	91	% Recov

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Surrog: 2-Fluorophenol	34	% Recov
Surrog: D14-Terphenyl	107	% Recov
PYRENE-D10 (SS)	116	% Recov
Surrog: D5-Nitrobenzene	47	% Recov
Surrog: D5-Phenol	55	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
Decenoic Acid, Hexa-	380NJ*	ug/kg
CARYOPHYLLENE (VAN)	810NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	24000NJ*	ug/kg
9,12,15-OCTADECATRIENO+	5100NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	3600NJ*	ug/kg
1-HEXADECANOL, ACETATE	250NJ*	ug/kg
1-DOCOSANOL	1700NJ*	ug/kg
2-HEXANONE, 6-(ACETYLO+	1800NJ*	ug/kg
SQUALENE	1800NJ*	ug/kg
UNKNOWN COMPOUND 1	550NJ*	ug/kg
UNKNOWN COMPOUND 2	250NJ*	ug/kg
UNKNOWN COMPOUND 3	4900NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	2040NJ*	ug/kg

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	5U	ug/kg
Chlordane (Tech)	50U	ug/kg
gamma-BHC (Lindane)	5U	ug/kg
Dieldrin	5U	ug/kg
Endrin	5U	ug/kg
Methoxychlor	5U	ug/kg
4,4'-DDD	5U	ug/kg
4,4'-DDE	5U	ug/kg
Heptachlor	5U	ug/kg
Aldrin	5U	ug/kg
alpha-BHC	5U	ug/kg
beta-BHC	5U	ug/kg
delta-BHC	5U	ug/kg
Endosulfan I	5U	ug/kg
Heptachlor Epoxide	5U	ug/kg
Endosulfan sulfate	5U	ug/kg

Pest/PCB - PP Scan *** Continued ***	Sediment Result	Units
Endrin aldehyde	5U	ug/kg
Toxaphene	300U	ug/kg
PCB - 1260	390 *	ug/kg
PCB - 1254	50U	ug/kg
PCB - 1221	50U	ug/kg
PCB - 1232	50U	ug/kg
PCB - 1248	50U	ug/kg
PCB - 1016	50U	ug/kg
Endosulfan II	5U	ug/kg
PCB - 1242	50U	ug/kg
Endrin Ketone	5U	ug/kg
Surrog: 2,4,6-Tribromo+	109	% Recov
DIBUTYLCHLORENDATE (SS)	75	% Recov
DECACHLOROBIPHENYL	80	% Recov

(Sample Complete)

Project: TEC-375A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352365 Description: SS01-2 Source: Sediment (General)

Begin Date: 92/08/26 11:10

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.12N*	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	3250 *	mg/kg-dr
Magnesium	Mg-Sedmt	2580 *	mg/kg-dr
Sodium	Na-Sedmt	559B*	mg/kg-dr
Potassium	K -Sedmt	437 *	mg/kg-dr
Arsenic	As-Sedmt	10.0P*	mg/kg-dr
Barium	Ba-Sedmt	148 *	mg/kg-dr
Beryllium	Be-Sedmt	0.43P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.39P*	mg/kg-dr
Chromium	Cr-Sedmt	11.8 *	mg/kg-dr
Cobalt	Co-Sedmt	4.74 *	mg/kg-dr
Copper	Cu-Sedmt	225 *	mg/kg-dr
Lead	Pb-Sedmt	211 *	mg/kg-dr
Manganese	Mn-Sedmt	264 *	mg/kg-dr
Nickel	Ni-Sedmt	15.9 *	mg/kg-dr
Silver	Ag-Sedmt	3.53N*	mg/kg-dr
Vanadium	V -Sedmt	20.4 *	mg/kg-dr
Zinc	Zn-Sedmt	65.8 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	4180 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	18700 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	11U	ug/kg
Chloroform	3U	ug/kg
Benzene	3UJ	ug/kg
1,1,1-Trichloroethane	3UJ	ug/kg
Bromomethane	3U	ug/kg
Chloromethane	3U	ug/kg
Dibromomethane	3UJ	ug/kg
Bromochloromethane	3U	ug/kg
Chloroethane	3U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Vinyl Chloride	3U	ug/kg
Methylene Chloride	16U	ug/kg
Carbon Disulfide	16U	ug/kg
Bromoform	3UJ	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethane	3U	ug/kg
1,1-Dichloroethane	3U	ug/kg
Trichlorofluoromethane	3U	ug/kg
Methane, Dichlorodiflu+	14J*	ug/kg
1,2-Dichloropropane	3UJ	ug/kg
2-Butanone	16U	ug/kg
1,1,2-Trichloroethane	3UJ	ug/kg
Ethene, trichloro-	3UJ	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3UJ	ug/kg
1,2,3-Trichlorobenzene	3UJ	ug/kg
Hexachlorobutadiene	3UJ	ug/kg
Naphthalene	3UJ	ug/kg
2-Chlorotoluene	3UJ	ug/kg
1,2-Dichlorobenzene	3UJ	ug/kg
1,2,4-Trimethylbenzene	3UJ	ug/kg
1,2-Dibromo-3-chloropr+	16UJ	ug/kg
1,2,3-Trichloropropane	3UJ	ug/kg
Tert-Butylbenzene	3UJ	ug/kg
Isopropylbenzene (Cume+	3UJ	ug/kg
p-Isopropyltoluene	3UJ	ug/kg
Ethylbenzene	3UJ	ug/kg
BENZENE, ETHENYL-(STYR+	3UJ	ug/kg
BENZENE, PROPYL-	3UJ	ug/kg
Butylbenzene	3UJ	ug/kg
4-Chlorotoluene	3UJ	ug/kg
1,4-Dichlorobenzene	3UJ	ug/kg
1,2-Dibromoethane (EDB)	3UJ	ug/kg
1,2-Dichloroethane	3U	ug/kg
4-Methyl-2-Pentanone(M+	3UJ	ug/kg
1,3,5-Trimethylbenzene	3UJ	ug/kg
Bromobenzene	3UJ	ug/kg
Toluene	0.5J*	ug/kg
Chlorobenzene	3UJ	ug/kg
1,2,4-Trichlorobenzene	3UJ	ug/kg
Dibromochloromethane	3UJ	ug/kg
Tetrachloroethene	3UJ	ug/kg
Sec-Butylbenzene	3UJ	ug/kg
1,3-Dichloropropane	3UJ	ug/kg
Cis-1,2-Dichloroethene	3U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
trans-1,2-Dichloroethe+	3U	ug/kg
1,3-Dichlorobenzene	3UJ	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3UJ	ug/kg
2,2-Dichloropropane	3U	ug/kg
Ethane, 1,1,1,2-Tetrac+	3UJ	ug/kg
Total Xylenes	3UJ	ug/kg
cis-1,3-Dichloropropene	3UJ	ug/kg
trans-1,3-Dichloroprop+	3UJ	ug/kg
p-Bromofluorobenzene	77	% Recov
FLUOROBENZENE	100	% Recov
d8-Toluene	117	% Recov
d4-1,2-Dichlorobenzene+	95	% Recov
1,2-Dichloroethane-d4 +	147	% Recov

B/N/Acid Scan	Sediment Result	Units
Benzo(e)pyrene	240J*	ug/kg
2,4-Dinitrophenol	12000UJ	ug/kg
Dibenzo(a,h)anthracene	2300U	ug/kg
Benzo(a)anthracene	310NJ*	ug/kg
4-Chloro-3-Methylphenol	4600U	ug/kg
Benzoic acid	12000UJ	ug/kg
Hexachloroethane	900U	ug/kg
Hexachlorocyclopentadi+	4600U	ug/kg
Isophorone	900U	ug/kg
Acenaphthene	72NJ*	ug/kg
Diethylphthalate	900U	ug/kg
Di-n-Butylphthalate	900U	ug/kg
Phenanthrene	1200 *	ug/kg
Butylbenzylphthalate	2300U	ug/kg
N-Nitrosodiphenylamine	12000UJ	ug/kg
Fluorene	58NJ*	ug/kg
Carbazole	4600UJ	ug/kg
Hexachlorobutadiene	2300U	ug/kg
Pentachlorophenol	4600U	ug/kg
2,4,6-Trichlorophenol	2300U	ug/kg
2-Nitroaniline	2300U	ug/kg
2-Nitrophenol	2300U	ug/kg
Naphthalene, 1-Methyl-	370J*	ug/kg
Naphthalene	300J*	ug/kg
2-Methylnaphthalene	360J*	ug/kg

(Continued on next page)

Project: TEC-675A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: PA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352365 Description: SS01-2 Source: Sediment (General)

Begin Date: 92/08/26 11:10

B/N/Acid Scan *** Continued ***	Sediment Result	Units
2-Chloronaphthalene	900U	ug/kg
3,3'-Dichlorobenzidine	23000U	ug/kg
2-Methylphenol	900U	ug/kg
1,2-Dichlorobenzene	900U	ug/kg
o-Chlorophenol (2-Chlo+	900U	ug/kg
2,4,5-Trichlorophenol	4500U	ug/kg
Nitrobenzene	900U	ug/kg
3-Nitroaniline	REJ	ug/kg
4-Nitroaniline	12000UJ	ug/kg
4-Nitrophenol	12000UJ	ug/kg
Benzyl Alcohol	4600U	ug/kg
4-Bromophenyl-phenylet+	900U	ug/kg
2,4-Dimethylphenol	900U	ug/kg
4-Methylphenol	900U	ug/kg
1,4-Dichlorobenzene	900U	ug/kg
4-Chloroaniline	12000UJ	ug/kg
Phenol	900U	ug/kg
bis(2-Chloroethyl)Ether	900U	ug/kg
bis(2-Chloroethoxy)Met+	900U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	900U	ug/kg
Di-n-Octyl Phthalate	900U	ug/kg
Hexachlorobenzene	900U	ug/kg
Anthracene	194J*	ug/kg
1,2,4-Trichlorobenzene	900U	ug/kg
2,4-Dichlorophenol	900U	ug/kg
2,4-Dinitrotoluene	2300U	ug/kg
Pyrene	1300 *	ug/kg
Dimethylphthalate	900U	ug/kg
Dibenzofuran	390J*	ug/kg
Benzo(ghi)perylene	470J*	ug/kg
Indeno(1,2,3-cd)pyrene	260J*	ug/kg
Benzo(b)fluoranthene	610J*	ug/kg
Fluoranthene	1100 *	ug/kg
Benzo(k)fluoranthene	900U	ug/kg
Acenaphthylene	900U	ug/kg
Chrysene	620NJ*	ug/kg
Retene	870NJ*	ug/kg
4,6-Dinitro-2-methylph+	12000UJ	ug/kg
1,3-Dichlorobenzene	900U	ug/kg
2,6-Dinitrotoluene	2300U	ug/kg
N-Nitroso-di-n-Propyla+	900UJ	ug/kg
4-Chlorophenyl-phenyle+	900U	ug/kg
BIS(2OCHLOROISOPROPYL)+	900UJ	ug/kg
Surrog: 2-Fluorobiphen+	107	% Recov

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Surrog: 2-Fluorophenol	11	% Recov
Surrog: D14-Terphenyl	110	% Recov
PYRENE-D10 (SS)	114	% Recov
Surrog: D5-Nitrobenzene	52	% Recov
Surrog: D5-Phenol	24	% Recov

Tent Ident - B/N/Acl	Sediment Result	Units
ETHANE, 1,1,2,2-TETRAC+	1700NJ*	ug/kg
CARYOPHYLLENE (VAN)	530NJ*	ug/kg
2-PENTANONE	2400NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	15000NJ*	ug/kg
9,12,15-OCTADECATRIENO+	2400NJ*	ug/kg
9H-FLUOREN-9-ONE	440NJ*	ug/kg
2-Hexanone	2800NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	690NJ*	ug/kg
2-HEXANOL	2500NJ*	ug/kg
CYCLOPENTANOL, 1-METHY+	2800NJ*	ug/kg
HEXANEDIOIC ACID, MONO+	1200NJ*	ug/kg
3,7,11-TRIDECATRIENENI+	290NJ*	ug/kg
UNKNOWN HYDROCARBON 1	720NJ*	ug/kg
UNKNOWN COMPOUND 1	2200NJ*	ug/kg
UNKNOWN COMPOUND 2	200NJ*	ug/kg
2-HEXANONE, 6-BROMO-	860NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	2700NJ*	ug/kg
2H-PYRAN, 2-(7-HEPTADE+	1400NJ*	ug/kg
1,E-4,Z-8-DODECATRIENE	210NJ*	ug/kg

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	5U	ug/kg
Chlordane (Tech)	46U	ug/kg
gammx-BHC (Lindane)	5U	ug/kg
Dieldrin	5U	ug/kg
Endrin	5U	ug/kg
Methoxychlor	5U	ug/kg
4,4'-DDD	5U	ug/kg
4,4'-DDE	5U	ug/kg
Heptachlor	5U	ug/kg
Aldrin	5U	ug/kg

Pest/PCB - PP Scan *** Continued ***	Sediment Result	Units
alpha-BHC	5U	ug/kg
beta-BHC	5U	ug/kg
delta-BHC	5U	ug/kg
Endosulfan I	5U	ug/kg
Heptachlor Epoxide	5U	ug/kg
Endosulfan sulfate	5U	ug/kg
Endrin aldehyde	5U	ug/kg
Toxaphene	270U	ug/kg
PCB - 1260	230 *	ug/kg
PCB - 1254	46U	ug/kg
PCB - 1221	46U	ug/kg
PCB - 1232	46U	ug/kg
PCB - 1248	46U	ug/kg
PCB - 1016	46U	ug/kg
Endosulfan II	5U	ug/kg
PCB - 1242	46U	ug/kg
Endrin Ketone	5U	ug/kg
Surrog: 2,4,6-Tribromo+	116	% Recov
DIBUTYLCHLORENDATE (SS)	67	% Recov
DECACHLOROBIPHENYL	77	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

aboratory: EPA, Manchester

Sample No: 92 352366 Description: S302-1 Source: Sediment (General)

Begin Date: 92/08/26 11:35

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20UN	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - Specified Matrix Spike #1		Sediment Result	Units
Selenium	Se-Sedmt	69.6	% Recov
Thallium	Tl-Sedmt	68.8	% Recov

Metals - Specified Matrix Spike #2		Sediment Result	Units
Selenium	Se-Sedmt	69.6	% Recov
Thallium	Tl-Sedmt	68.4	% Recov

Metals - Specified Duplicate #1		Sediment Result	Units
Selenium	Se-Sedmt	0.20UW	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	2910 *	mg/kg-dr
Mgnsium	Mg-Sedmt	12600 *	mg/kg-dr
Sodium	Na-Sedmt	401B*	mg/kg-dr
Potssium	K -Sedmt	2740 *	mg/kg-dr
Arsenic	As-Sedmt	36.4 *	mg/kg-dr
Barium	Ba-Sedmt	76.3 *	mg/kg-dr
Berylium	Be-Sedmt	0.836 *	mg/kg-dr
Cadmium	Cd-Sedmt	0.32P*	mg/kg-dr
Chromium	Cr-Sedmt	13.2 *	mg/kg-dr
Cobalt	Co-Sedmt	8.92 *	mg/kg-dr
Copper	Cu-Sedmt	17.8 *	mg/kg-dr
Lead	Pb-Sedmt	394 *	mg/kg-dr
Mangnese	Mn-Sedmt	653 *	mg/kg-dr
Nickel	Ni-Sedmt	15.1 *	mg/kg-dr
Silver	Ag-Sedmt	4.33 *	mg/kg-dr
Vanadium	V -Sedmt	19.8 *	mg/kg-dr

Metals - ICP Scan *** Continued ***		Sediment Result	Units
Zinc	Zn-Sedmt	24.6 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	14700 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	22900 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

Metals - ICP Scan Matrix Spike #1		Sediment Result	Units
Calcium	Ca-Sedmt	NAR	% Recov
Mgnsium	Mg-Sedmt	NAR	% Recov
Sodium	Na-Sedmt	NAR	% Recov
Potssium	K -Sedmt	NAR	% Recov
Arsenic	As-Sedmt	91.9	% Recov
Barium	Ba-Sedmt	104.0	% Recov
Berylium	Be-Sedmt	119.3	% Recov
Cadmium	Cd-Sedmt	90.4	% Recov
Chromium	Cr-Sedmt	98.2	% Recov
Cobalt	Co-Sedmt	96.8	% Recov
Copper	Cu-Sedmt	101.9	% Recov
Lead	Pb-Sedmt	-184.1	% Recov
Mangnese	Mn-Sedmt	111.5	% Recov
Nickel	Ni-Sedmt	93.6	% Recov
Silver	Ag-Sedmt	79.8	% Recov
Vanadium	V -Sedmt	99.4	% Recov
Zinc	Zn-Sedmt	86.6	% Recov
Antimony	Sb-Sedmt	14.4	% Recov
Aluminum	Al-Sedmt	NAR	% Recov
Selenium	Se-Sedmt	NAR	% Recov
Iron	Fe-Sedmt	NAR	% Recov
Thallium	Tl-Sedmt	NAR	% Recov

Metals - ICP Scan Matrix Spike #2		Sediment Result	Units
Calcium	Ca-Sedmt	NAR	% Recov
Mgnsium	Mg-Sedmt	NAR	% Recov
Sodium	Na-Sedmt	NAR	% Recov
Potssium	K -Sedmt	NAR	% Recov
Arsenic	As-Sedmt	79.8	% Recov
Barium	Ba-Sedmt	93.0	% Recov

Metals - ICP Scan *** Continued *** Matrix Spike #2		Sediment Result	Units
Berylium	Be-Sedmt	106.0	% Recov
Cadmium	Cd-Sedmt	77.7	% Recov
Chromium	Cr-Sedmt	80.4	% Recov
Cobalt	Co-Sedmt	85.1	% Recov
Copper	Cu-Sedmt	86.9	% Recov
Lead	Pb-Sedmt	-240.6	% Recov
Mangnese	Mn-Sedmt	169.1	% Recov
Nickel	Ni-Sedmt	81.9	% Recov
Silver	Ag-Sedmt	67.3	% Recov
Vanadium	V -Sedmt	86.2	% Recov
Zinc	Zn-Sedmt	74.4	% Recov
Antimony	Sb-Sedmt	5.5	% Recov
Aluminum	Al-Sedmt	NAR	% Recov
Selenium	Se-Sedmt	NAR	% Recov
Iron	Fe-Sedmt	NAR	% Recov
Thallium	Tl-Sedmt	NAR	% Recov

Metals - ICP Scan Duplicate #1		Sediment Result	Units
Calcium	Ca-Sedmt	2660 *	mg/kg-dr
Mgnsium	Mg-Sedmt	12500 *	mg/kg-dr
Sodium	Na-Sedmt	368B*	mg/kg-dr
Potssium	K -Sedmt	2560 *	mg/kg-dr
Arsenic	As-Sedmt	31.9 *	mg/kg-dr
Barium	Ba-Sedmt	71.7 *	mg/kg-dr
Berylium	Be-Sedmt	0.792 *	mg/kg-dr
Cadmium	Cd-Sedmt	0.44P*	mg/kg-dr
Chromium	Cr-Sedmt	11.9 *	mg/kg-dr
Cobalt	Co-Sedmt	8.96 *	mg/kg-dr
Copper	Cu-Sedmt	16.2E*	mg/kg-dr
Lead	Pb-Sedmt	70.3 *	mg/kg-dr
Mangnese	Mn-Sedmt	578 *	mg/kg-dr
Nickel	Ni-Sedmt	13.7 *	mg/kg-dr
Silver	Ag-Sedmt	3.99 *	mg/kg-dr
Vanadium	V -Sedmt	19.2 *	mg/kg-dr
Zinc	Zn-Sedmt	20.7 *	mg/kg-dr
Antimony	Sb-Sedmt	3.1UN	mg/kg-dr
Aluminum	Al-Sedmt	14300 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	22200 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352366 Description: S802-1 Source: Sediment (General)

Begin Date: 92/08/26 11:35

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	8UJ	ug/kg
Chloroform	3UJ	ug/kg
Benzene	3U	ug/kg
1,1,1-Trichloroethane	3UJ	ug/kg
Bromomethene	3U	ug/kg
Chloromethene	3UJ	ug/kg
Dibromomethane	3U	ug/kg
Bromochloromethane	3U	ug/kg
Chloroethane	3UJ	ug/kg
Vinyl Chloride	3U	ug/kg
Methylene Chloride	3U	ug/kg
Carbon Disulfide	17U	ug/kg
Bromoform	3U	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethane	3UJ	ug/kg
1,1-Dichloroethene	3U	ug/kg
Trichlorofluoromethane	0.5J*	ug/kg
Methane, Dichlorodiflu+	23J*	ug/kg
1,2-Dichloropropane	3U	ug/kg
2-Butanone	17U	ug/kg
1,1,2-Trichloroethene	3U	ug/kg
Ethene, trichloro-	3U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3U	ug/kg
1,2,3-Trichlorobenzene	3U	ug/kg
Hexachlorobutadiene	3U	ug/kg
Naphthalene	4 *	ug/kg
2-Chlorotoluene	3U	ug/kg
1,2-Dichlorobenzene	3U	ug/kg
1,2,4-Trimethylbenzene	1J*	ug/kg
1,2-Dibromo-3-chloropr+	17U	ug/kg
1,2,3-Trichloropropane	3U	ug/kg
Tert-Butylbenzene	3U	ug/kg
Isopropylbenzene (Cume+	3U	ug/kg
p-Isopropyltoluene	3U	ug/kg
Ethylbenzene	3U	ug/kg
BENZENE, ETHENYL-(STYR+	3U	ug/kg
BENZENE, PROPYL-	3U	ug/kg
Butylbenzene	3U	ug/kg
4-Chlorotoluene	3U	ug/kg
1,4-Dichlorobenzene	3U	ug/kg
1,2-Dibromoethane (EDB)	3U	ug/kg
1,2-Dichloroethane	3UJ	ug/kg
4-Methyl-2-Pentanone(M+	3U	ug/kg
1,3,5-Trimethylbenzene	0.7J*	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Bromobenzene	3U	ug/kg
Toluene	3U	ug/kg
Chlorobenzene	3U	ug/kg
1,2,4-Trichlorobenzene	3U	ug/kg
Dibromochloromethane	3U	ug/kg
Tetrachloroethene	3U	ug/kg
Sec-Butylbenzene	3U	ug/kg
1,3-Dichloropropane	3U	ug/kg
Cis-1,2-Dichloroethene	3U	ug/kg
trans-1,2-Dichloroethe+	3U	ug/kg
1,3-Dichlorobenzene	3U	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3U	ug/kg
2,2-Dichloropropane	3UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	3U	ug/kg
Total Xylenes	0.09J*	ug/kg
cis-1,3-Dichloropropene	3U	ug/kg
trans-1,3-Dichloroprop+	3UJ	ug/kg
p-Bromofluorobenzene	85	% Recov
FLUOROBENZENE	101	% Recov
d8-Toluene	100	% Recov
d4-1,2-Dichlorobenzene+	84	% Recov
1,2-Dichloroethane-d4 +	97	% Recov

Tent Ident - VOA Scn	Sediment Result	Units
BENZENE, 1-METHYL-3-(1+	4.2NJ*	ug/kg
NAPHTHALENE, 1,3-DIMET+	100NJ*	ug/kg
UNKNOWN BENZENES (TOTA+	10NJ*	ug/kg
1H-INDENE, 2,3-DIHYDRO+	18NJ*	ug/kg

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	480U	ug/kg
2,4-Dinitrophenol	6200UJ	ug/kg
Dibenzo(a,h)anthracene	1200U	ug/kg
Benzo(e)enthracene	100J*	ug/kg
4-Chloro-3-Methylphenol	2400UJ	ug/kg
Benzoic acid	6200UJ	ug/kg
Hexachloroethane	480U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Hexachlorocyclopentadi+	2400UJ	ug/kg
Isophorone	480U	ug/kg
Acenaphthene	26JN*	ug/kg
Diethylphthalate	480U	ug/kg
Di-n-Butylphthalate	480U	ug/kg
Phenanthrene	160J*	ug/kg
Butylbenzylphthalate	41NJ*	ug/kg
N-Nitrosodiphenylamine	6200UJ	ug/kg
Fluorene	480U	ug/kg
Carbazole	2400UJ	ug/kg
Hexachlorobutadiene	1200U	ug/kg
Pentachlorophenol	2400UJ	ug/kg
2,4,6-Trichlorophenol	1200UJ	ug/kg
2-Nitroaniline	1200U	ug/kg
2-Nitrophenol	1200UJ	ug/kg
Naphthalene, 1-Methyl-	66JN*	ug/kg
Naphthalene	22JN*	ug/kg
2-Methylnaphthalene	32J*	ug/kg
2-Chloronaphthalene	480U	ug/kg
3,3'-Dichlorobenzidine	12000U	ug/kg
2-Methylphenol	480UJ	ug/kg
1,2-Dichlorobenzene	480U	ug/kg
o-Chlorophenol (2-Chlo+	480UJ	ug/kg
2,4,5-Trichlorophenol	2400UJ	ug/kg
Nitrobenzene	480U	ug/kg
3-Nitroaniline	6200UJ	ug/kg
4-Nitroaniline	6200UJ	ug/kg
4-Nitrophenol	6200UJ	ug/kg
Benzyl Alcohol	2400UJ	ug/kg
4-Bromophenyl-phenylet+	480U	ug/kg
2,4-Dimethylphenol	480UJ	ug/kg
4-Methylphenol	480UJ	ug/kg
1,4-Dichlorobenzene	480U	ug/kg
4-Chloroaniline	6200U	ug/kg
Phenol	480UJ	ug/kg
bis(2-Chloroethyl)Ether	480U	ug/kg
bis(2-Chloroethoxy)Met+	480U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	480U	ug/kg
Di-n-Octyl Phthalate	480U	ug/kg
Hexachlorobenzene	480UJ	ug/kg
Anthracene	26J*	ug/kg
1,2,4-Trichlorobenzene	480U	ug/kg
2,4-Dichlorophenol	480UJ	ug/kg
2,4-Dinitrotoluene	1200UJ	ug/kg

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352366 Description: SS02-1 Source: Sediment (General)

Begin Date: 92/08/26 11:35

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Pyrene	240J*	ug/kg
Dimethylphthalate	480U	ug/kg
Dibenzofuran	480U	ug/kg
Benzo(ghi)perylene	480U	ug/kg
Indeno(1,2,3-cd)pyrene	480U	ug/kg
Benzo(b)fluoranthene	110JN*	ug/kg
Fluoranthene	110J*	ug/kg
Benzo(k)fluoranthene	480UJ	ug/kg
Acenaphthylene	480U	ug/kg
Chrysene	160NJ*	ug/kg
Retene	480U	ug/kg
4,6-Dinitro-2-methylph+	6200UJ	ug/kg
1,3-Dichlorobenzene	480U	ug/kg
2,6-Dinitrotoluene	1200U	ug/kg
N-Nitroso-di-n-Propyla+	480U	ug/kg
4-Chlorophenyl-phenyle+	480UJ	ug/kg
BIS(2OCHLOROISOPROPYL)+	480U	ug/kg
Surrog: 2-Fluorobiphen+	93	% Recov
Surrog: 2-Fluorophenol	12	% Recov
Surrog: D14-Terphenyl	100	% Recov
PYRENE-D10 (SS)	71	% Recov
Surrog: D5-Nitrobenzene	46	% Recov
Surrog: D5-Phenol	17	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
.GAMMA.-SITOSTEROL	1600NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	10000NJ*	ug/kg
3-PENTEN-2-ONE, 4-METH+	11000NJ*	ug/kg
CHOLESTANE (VAN)	560NJ*	ug/kg
1-HEXACOSANOL	17000NJ*	ug/kg
PENTATRIACONTANE	5210NJ*	ug/kg
UNKNOWN HYDROCARBON 1	4900NJ*	ug/kg
PENTANOIC ACID, 2-HYDR+	1400NJ*	ug/kg
TRICYCLO[4.3.0.07,9]NO+	1400NJ*	ug/kg
2-OCTADECENAL	1600NJ*	ug/kg
1-HENEICOSYL FORMATE	1200NJ*	ug/kg

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	5U	ug/kg
Chlordane (Tech)	49U	ug/kg
gamma-BHC (Lindane)	5U	ug/kg
Dieldrin	5U	ug/kg
Endrin	5U	ug/kg
Methoxychlor	5U	ug/kg
4,4'-DDD	5U	ug/kg
4,4'-DDE	5U	ug/kg
Heptachlor	5U	ug/kg
Aldrin	5U	ug/kg
alpha-BHC	5U	ug/kg
beta-BHC	5U	ug/kg
delta-BHC	5U	ug/kg
Endosulfan I	5U	ug/kg
Heptachlor Epoxide	5U	ug/kg
Endosulfan sulfate	5U	ug/kg
Endrin aldehyde	5U	ug/kg
Toxaphene	290U	ug/kg
PCB - 1260	49U	ug/kg
PCB - 1254	49U	ug/kg
PCB - 1221	49U	ug/kg
PCB - 1232	49U	ug/kg
PCB - 1248	49U	ug/kg
PCB - 1016	49U	ug/kg
Endosulfan II	5U	ug/kg
PCB - 1242	49U	ug/kg
Endrin Ketone	5U	ug/kg
Surrog: 2,4,6-Tribromo+	133	% Recov
DIBUTYLCHLORENDATE (SS)	92	% Recov
DECACHLOROBIPHENYL	96	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352367 Description: SS02-2 Source: Sediment (General)

Begin Date: 92/08/26 11:35

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20UN	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	2070 *	mg/kg-dr
Mgnsium	Mg-Sedmt	5260 *	mg/kg-dr
Sodium	Na-Sedmt	451B*	mg/kg-dr
Potssium	K -Sedmt	1370 *	mg/kg-dr
Arsenic	As-Sedmt	68.8 *	mg/kg-dr
Barium	Ba-Sedmt	42.8 *	mg/kg-dr
Berylium	Be-Sedmt	0.502 *	mg/kg-dr
Cadmium	Cd-Sedmt	0.33P*	mg/kg-dr
Chromium	Cr-Sedmt	10.5 *	mg/kg-dr
Cobalt	Co-Sedmt	9.63 *	mg/kg-dr
Copper	Cu-Sedmt	15.1 *	mg/kg-dr
Lead	Pb-Sedmt	25.8 *	mg/kg-dr
Mangnese	Mn-Sedmt	323 *	mg/kg-dr
Nickel	Ni-Sedmt	12.2 *	mg/kg-dr
Silver	Ag-Sedmt	3.67 *	mg/kg-dr
Vanadium	V -Sedmt	13.3 *	mg/kg-dr
Zinc	Zn-Sedmt	15.9 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	8420 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	20300 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	16U	ug/kg
Chloroform	3UJ	ug/kg
Benzene	3U	ug/kg
1,1,1-Trichloroethane	3UJ	ug/kg
Bromomethane	3U	ug/kg
Chloromethane	3UJ	ug/kg
Dibromomethane	3U	ug/kg
Bromochloromethane	3U	ug/kg
Chloroethane	3UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Vinyl Chloride	3U	ug/kg
Methylene Chloride	3J*	ug/kg
Carbon Disulfide	16U	ug/kg
Bromoform	3U	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethane	3UJ	ug/kg
1,1-Dichloroethene	0.1J*	ug/kg
Trichlorofluoromethane	0.7J*	ug/kg
Methane, Dichlorodiflu+	41UJ	ug/kg
1,2-Dichloropropane	3U	ug/kg
2-Butanone	16U	ug/kg
1,1,2-Trichloroethane	3U	ug/kg
Ethene, trichloro-	3U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3U	ug/kg
1,2,3-Trichlorobenzene	3U	ug/kg
Hexachlorobutadiene	3U	ug/kg
Naphthalene	1J*	ug/kg
2-Chlorotoluene	3U	ug/kg
1,2-Dichlorobenzene	3U	ug/kg
1,2,4-Trimethylbenzene	3U	ug/kg
1,2-Dibromo-3-chloropr+	16U	ug/kg
1,2,3-Trichloropropane	3U	ug/kg
Tert-Butylbenzene	3U	ug/kg
Isopropylbenzene (Cume+	3U	ug/kg
p-Isopropyltoluene	3U	ug/kg
Ethylbenzene	3U	ug/kg
BENZENE, ETHENYL-(STYR+	3U	ug/kg
BENZENE, PROPYL-	3U	ug/kg
Butylbenzene	3U	ug/kg
4-Chlorotoluene	3U	ug/kg
1,4-Dichlorobenzene	3U	ug/kg
1,2-Dibromoethane (EDB)	3U	ug/kg
1,2-Dichloroethane	3UJ	ug/kg
4-Methyl-2-Pentanone(M+	3U	ug/kg
1,3,5-Trimethylbenzene	3UJ	ug/kg
Bromobenzene	3U	ug/kg
Toluene	3U	ug/kg
Chlorobenzene	3U	ug/kg
1,2,4-Trichlorobenzene	3U	ug/kg
Dibromochloromethane	3U	ug/kg
Tetrachloroethene	3U	ug/kg
Sec-Butylbenzene	3U	ug/kg
1,3-Dichloropropane	3U	ug/kg
Cis-1,2-Dichloroethene	3U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
trans-1,2-Dichloroethe+	3U	ug/kg
1,3-Dichlorobenzene	3U	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3U	ug/kg
2,2-Dichloropropane	3UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	3U	ug/kg
Total Xylenes	3U	ug/kg
cis-1,3-Dichloropropene	3U	ug/kg
trans-1,3-Dichloroprop+	3UJ	ug/kg
p-Bromofluorobenzene	99	% Recov
FLUOROBENZENE	NAP	% Recov
d8-Toluene	91	% Recov
d4-1,2-Dichlorobenzene+	114	% Recov
1,2-Dichloroethane-d4 +	91	% Recov

Tent Ident - VOA Sca	Sediment Result	Units
BENZENE, 1-METHYL-3-(1+	3.9NJ*	ug/kg
NAPHTHALENE, 2,3-DIMET+	14NJ*	ug/kg

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	120U	ug/kg
2,4-Dinitrophenol	REJ	ug/kg
Dibenzo(a,h)anthracene	310U	ug/kg
Benzo(a)anthracene	120U	ug/kg
4-Chloro-3-Methylphenol	REJ	ug/kg
Benzoic acid	REJ	ug/kg
Hexachloroethene	120U	ug/kg
Hexachlorocyclopentadi+	630U	ug/kg
Isophorone	8NJ*	ug/kg
Acenaphthene	120U	ug/kg
Diethylphthalate	120U	ug/kg
Di-n-Butylphthalate	120U	ug/kg
Phenanthrene	9NJ*	ug/kg
Butylbenzylphthalate	120U	ug/kg
N-Nitrosodiphenylamine	17J*	ug/kg
Fluorene	120U	ug/kg
Carbazole	630UJ	ug/kg
Hexachlorobutadiene	310U	ug/kg

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352367 Description: SS02-2 Source: Sediment (General)

Begin Date: 92/08/26 11:35

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Pentachlorophenol	REJ	ug/kg
2,4,6-Trichlorophenol	REJ	ug/kg
2-Nitroaniline	310U	ug/kg
2-Nitrophenol	REJ	ug/kg
Naphthalene, 1-Methyl-	120U	ug/kg
Naphthalene	120U	ug/kg
2-Methylnaphthalene	120U	ug/kg
2-Chloronaphthalene	120U	ug/kg
3,3'-Dichlorobenzidine	3100U	ug/kg
2-Methylphenol	REJ	ug/kg
1,2-Dichlorobenzene	120U	ug/kg
o-Chlorophenol (2-Chlo+	REJ	ug/kg
2,4,5-Trichlorophenol	REJ	ug/kg
Nitrobenzene	120U	ug/kg
3-Nitroaniline	REJ	ug/kg
4-Nitroaniline	1600U	ug/kg
4-Nitrophenol	REJ	ug/kg
Benzyl Alcohol	630U	ug/kg
4-Bromophenyl-phenylet+	120U	ug/kg
2,4-Dimethylphenol	REJ	ug/kg
4-Methylphenol	REJ	ug/kg
1,4-Dichlorobenzene	120U	ug/kg
4-Chloroaniline	1600UJ	ug/kg
Phenol	REJ	ug/kg
bis(2-Chloroethyl)Ether	120U	ug/kg
bis(2-Chloroethoxy)Met+	120U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	120U	ug/kg
Di-n-Octyl Phthalate	120UJ	ug/kg
Hexachlorobenzene	120UJ	ug/kg
Anthracene	120U	ug/kg
1,2,4-Trichlorobenzene	120U	ug/kg
2,4-Dichlorophenol	REJ	ug/kg
2,4-Dinitrotoluene	310U	ug/kg
Pyrene	9NJ*	ug/kg
Dimethylphthelate	120U	ug/kg
Dibenzofuran	120U	ug/kg
Benzo(ghi)perylene	120U	ug/kg
Indeno(1,2,3-cd)pyrene	120U	ug/kg
Benzo(b)fluoranthene	120U	ug/kg
Fluoranthene	9J*	ug/kg
Benzo(k)fluoranthene	120U	ug/kg
Acenaphthylene	120U	ug/kg
Chrysene	120U	ug/kg
Retene	120U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
4,6-Dinitro-2-methylph+	REJ	ug/kg
1,3-Dichlorobenzene	120U	ug/kg
2,6-Dinitrotoluene	310U	ug/kg
N-Nitroso-di-n-Propyla+	120UJ	ug/kg
4-Chlorophenyl-phenyle+	120U	ug/kg
BIS(2OCHLOROISOPROPYL)+	120UJ	ug/kg
Surrog: 2-Fluorobiphen+	82	% Recov
Surrog: 2-Fluorophenol	33	% Recov
Surrog: D14-Terphenyl	94	% Recov
PYRENE-D10 (SS)	92	% Recov
Surrog: D5-Nitrobenzene	77	% Recov
Surrog: D5-Phenol	0	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
4-HYDROXY-4-METHYLPENT+	27000NJ*	ug/kg
PHENOL, 2-FLUORO-	510NJ*	ug/kg
2-Hexanone	1100NJ*	ug/kg
2-HEXANOL	1100NJ*	ug/kg
1-DOCOSANOL	480NJ*	ug/kg
2-PROPANONE, 1-CYCLOHE+	430NJ*	ug/kg
3-PENTEN-2-ONE, 4-BUTO+	160NJ*	ug/kg
2-HEPTANOL, ACETATE	4200NJ*	ug/kg
UNKNOWN HYDROCARBON 1	310NJ*	ug/kg
UNKNOWN HYDROCARBON 2	260NJ*	ug/kg
UNKNOWN HYDROCARBON 3	1600NJ*	ug/kg
UNKNOWN HYDROCARBON 4	470NJ*	ug/kg
UNKNOWN HYDROCARBON 5	820NJ*	ug/kg
UNKNOWN HYDROCARBON 6	380NJ*	ug/kg
UNKNOWN HYDROCARBON 7	100NJ*	ug/kg
UNKNOWN COMPOUND 1	560NJ*	ug/kg
UNKNOWN COMPOUND 2	5800NJ*	ug/kg
UNKNOWN COMPOUND 3	770NJ*	ug/kg
UNKNOWN COMPOUND 4	68NJ*	ug/kg
UNKNOWN COMPOUND 5	230NJ*	ug/kg
UNKNOWN COMPOUND 6	160NJ*	ug/kg
UNKNOWN COMPOUND 7	68NJ*	ug/kg
UNKNOWN COMPOUND 8	230NJ*	ug/kg
UNKNOWN COMPOUND 9	270NJ*	ug/kg
UNKNOWN COMPOUND 10	210NJ*	ug/kg
UNKNOWN COMPOUND 11	300NJ*	ug/kg
UNKNOWN COMPOUND 12	250NJ*	ug/kg

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
UNKNOWN COMPOUND 13	800NJ*	ug/kg
UNKNOWN COMPOUND 14	570NJ*	ug/kg
UNKNOWN COMPOUND-15	170NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	650NJ*	ug/kg
1,2-BENZENEDICARBOXYL1+	75NJ*	ug/kg
HEXANE, 1-PROPOXY-	790NJ*	ug/kg
2-NONANONE, 9-[(TETRAH+	830NJ*	ug/kg
1,8-NONANEDIOL, 8-METH+	730NJ*	ug/kg
2-CYCLOHEXEN-1-ONE, 3,+	4120NJ*	ug/kg
CYCLOPENTENE, 1,3-DIME+	1300NJ*	ug/kg
2,6-DIMETHYL-6-NITRO-2+	460NJ*	ug/kg

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	5U	ug/kg
Chlordane (Tech)	50U	ug/kg
gamma-BHC (Lindane)	5U	ug/kg
Dieldrin	5U	ug/kg
Endrin	5U	ug/kg
Methoxychlor	5U	ug/kg
4,4'-DDD	5U	ug/kg
4,4'-DDE	5U	ug/kg
Heptachlor	5U	ug/kg
Aldrin	5U	ug/kg
alpha-BHC	5U	ug/kg
beta-BHC	5U	ug/kg
delta-BHC	5U	ug/kg
Endosulfan 1	5U	ug/kg
Heptachlor Epoxide	5U	ug/kg
Endosulfan sulfate	5U	ug/kg
Endrin aldehyde	5U	ug/kg
Toxaphene	300U	ug/kg
PCB - 1260	50U	ug/kg
PCB - 1254	50U	ug/kg
PCB - 1221	50U	ug/kg
PCB - 1232	50U	ug/kg
PCB - 1248	50U	ug/kg
PCB - 1016	50U	ug/kg
Endosulfan II	5U	ug/kg
PCB - 1242	50U	ug/kg
Endrin Ketone	5U	ug/kg
Surrog: 2,4,6-Tribromo+	98	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352367 Description: SS02-2 Source: Sediment (General)

Begin Date: 92/08/26 11:35

Pest/PCB - PP Scan *** Continued ***	Sediment Result	Units
DIBUTYLCHLORENDATE (SS)	69	% Recov
DECACHLOROBIPHENYL	56	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352368 Description: SS03-1 Source: Sediment (General)

Begin Date: 92/08/26 11:45

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	2320 *	mg/kg-dr
Magnesium	Mg-Sedmt	2680 *	mg/kg-dr
Sodium	Na-Sedmt	538B*	mg/kg-dr
Potassium	K -Sedmt	601 *	mg/kg-dr
Arsenic	As-Sedmt	9.6P*	mg/kg-dr
Barium	Ba-Sedmt	68.7 *	mg/kg-dr
Beryllium	Be-Sedmt	0.28P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.71P*	mg/kg-dr
Chromium	Cr-Sedmt	10.6 *	mg/kg-dr
Cobalt	Co-Sedmt	4.90 *	mg/kg-dr
Copper	Cu-Sedmt	76.6 *	mg/kg-dr
Lead	Pb-Sedmt	87.5 *	mg/kg-dr
Manganese	Mn-Sedmt	163 *	mg/kg-dr
Nickel	Ni-Sedmt	13.1 *	mg/kg-dr
Silver	Ag-Sedmt	2.25N*	mg/kg-dr
Vanadium	V -Sedmt	18.8 *	mg/kg-dr
Zinc	Zn-Sedmt	100 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	5060 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	12500 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	200UJ	ug/kg
Acetone	1000UJ	ug/kg
Chloroform	200U	ug/kg
Benzene	200U	ug/kg
1,1,1-Trichloroethane	200UJ	ug/kg
Bromomethane	200U	ug/kg
Chloromethane	200UJ	ug/kg
Dibromomethane	200U	ug/kg
Bromochloromethane	200U	ug/kg
Chloroethane	200UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Vinyl Chloride	200UJ	ug/kg
Methylene Chloride	1000U	ug/kg
Carbon Disulfide	1000U	ug/kg
Bromoform	200U	ug/kg
Bromodichloromethane	200UJ	ug/kg
1,1-Dichloroethane	200U	ug/kg
1,1-Dichloroethene	200U	ug/kg
Trichlorofluoromethane	200UJ	ug/kg
Methane, Dichlorodiflu+	1000UJ	ug/kg
1,2-Dichloropropane	200U	ug/kg
2-Butanone	1000U	ug/kg
1,1,2-Trichloroethane	200U	ug/kg
Ethane, trichloro-	200U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	200U	ug/kg
1,2,3-Trichlorobenzene	200U	ug/kg
Hexachlorobutadiene	200U	ug/kg
Naphthalene	1200 *	ug/kg
2-Chlorotoluene	200U	ug/kg
1,2-Dichlorobenzene	200U	ug/kg
1,2,4-Trimethylbenzene	1300 *	ug/kg
1,2-Dibromo-3-chloropr+	1000U	ug/kg
1,2,3-Trichloropropane	200U	ug/kg
Tert-Butylbenzene	200U	ug/kg
Isopropylbenzene (Cume+	200U	ug/kg
p-Isopropyltoluene	200U	ug/kg
Ethylbenzene	13J*	ug/kg
BENZENE, ETHENYL-(STYR+	200U	ug/kg
BENZENE, PROPYL-	200U	ug/kg
Butylbenzene	200U	ug/kg
4-Chlorotoluene	200U	ug/kg
1,4-Dichlorobenzene	200U	ug/kg
1,2-Dibromoethane (EDB)	200U	ug/kg
1,2-Dichloroethane	200UJ	ug/kg
4-Methyl-2-Pentanone(M+	200U	ug/kg
1,3,5-Trimethylbenzene	1800J*	ug/kg
Bromobenzene	200U	ug/kg
Toluene	15J*	ug/kg
Chlorobenzene	200U	ug/kg
1,2,4-Trichlorobenzene	200U	ug/kg
Dibromochloromethane	200U	ug/kg
Tetrachloroethene	200U	ug/kg
Sec-Butylbenzene	200U	ug/kg
1,3-Dichloropropane	200U	ug/kg
Cis-1,2-Dichloroethene	200U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
trans-1,2-Dichloroethe+	200U	ug/kg
1,3-Dichlorobenzene	200U	ug/kg
1,1-Dichloropropene	200UJ	ug/kg
2-Hexanone	200U	ug/kg
2,2-Dichloropropane	200U	ug/kg
Ethane, 1,1,1,2-Tetrac+	200U	ug/kg
Total Xylenes	400 *	ug/kg
cis-1,3-Dichloropropene	200U	ug/kg
trans-1,3-Dichloroprop+	200U	ug/kg
p-Bromofluorobenzene	99	% Recov
FLUOROBENZENE	100	% Recov
d8-Toluene	93	% Recov
d4-1,2-Dichlorobenzene+	110	% Recov
1,2-Dichloroethane-d4 +	96	% Recov

VOA - PP Scan (GCMS) Duplicate #1	Sediment Result	Units
Carbon Tetrachloride	6UJ	ug/kg
Acetone	28U	ug/kg
Chloroform	6UJ	ug/kg
Benzene	3J*	ug/kg
1,1,1-Trichloroethane	6UJ	ug/kg
Bromomethane	6U	ug/kg
Chloromethane	6UJ	ug/kg
Dibromomethane	6UJ	ug/kg
Bromochloromethane	6U	ug/kg
Chloroethane	6UJ	ug/kg
Vinyl Chloride	6UJ	ug/kg
Methylene Chloride	28U	ug/kg
Carbon Disulfide	28U	ug/kg
Bromoform	6UJ	ug/kg
Bromodichloromethane	6UJ	ug/kg
1,1-Dichloroethane	6U	ug/kg
1,1-Dichloroethene	6U	ug/kg
Trichlorofluoromethane	6J*	ug/kg
Methane, Dichlorodiflu+	37J*	ug/kg
1,2-Dichloropropane	6UJ	ug/kg
2-Butanone	8U	ug/kg
1,1,2-Trichloroethane	6UJ	ug/kg
Ethane, trichloro-	6UJ	ug/kg
ETHANE, 1,1,2,2-TETRAC+	6UJ	ug/kg
1,2,3-Trichlorobenzene	6UJ	ug/kg

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU2Z

Laboratory: EPA, Manchester

Sample No: 92 352368 Description: SS03-1 Source: Sediment (General)

Begin Date: 92/08/26 11:45

VOA - PP Scan (GCMS) *** Continued *** Duplicate #1	Sediment Result	Units
Hexachlorobutadiene	6UJ	ug/kg
Naphthalene	370J*	ug/kg
2-Chlorotoluene	6UJ	ug/kg
1,2-Dichlorobenzene	6UJ	ug/kg
1,2,4-Trimethylbenzene	790J*	ug/kg
1,2-Dibromo-3-chloropr+	28UJ	ug/kg
1,2,3-Trichloropropane	6UJ	ug/kg
tert-Butylbenzene	6UJ	ug/kg
Isopropylbenzene (Cume+	6UJ	ug/kg
p-Isopropyltoluene	6UJ	ug/kg
Ethylbenzene	11J*	ug/kg
BENZENE, ETHENYL-(STYR+	6UJ	ug/kg
BENZENE, PROPYL-	6UJ	ug/kg
Butylbenzene	6UJ	ug/kg
4-Chlorotoluene	6UJ	ug/kg
1,4-Dichlorobenzene	6UJ	ug/kg
1,2-Dibromoethane (EDB)	6UJ	ug/kg
1,2-Dichloroethane	6UJ	ug/kg
4-Methyl-2-Pentanone(M+	6UJ	ug/kg
1,3,5-Trimethylbenzene	1200J*	ug/kg
Bromobenzene	6UJ	ug/kg
Toluene	11J*	ug/kg
Chlorobenzene	6UJ	ug/kg
1,2,4-Trichlorobenzene	6UJ	ug/kg
Dibromochloromethane	6UJ	ug/kg
Tetrachloroethene	6UJ	ug/kg
Sec-Butylbenzene	6UJ	ug/kg
1,3-Dichloropropane	6UJ	ug/kg
Cis-1,2-Dichloroethene	6U	ug/kg
trans-1,2-Dichloroetha+	6U	ug/kg
1,3-Dichlorobenzene	6UJ	ug/kg
1,1-Dichloropropene	6UJ	ug/kg
2-Hexanone	6UJ	ug/kg
2,2-Dichloropropane	6UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	6UJ	ug/kg
Total Xylenes	380J*	ug/kg
cis-1,3-Dichloropropene	6UJ	ug/kg
trans-1,3-Dichloroprop+	6UJ	ug/kg
p-Bromofluorobenzene	294	% Recov
FLUOROBENZENE	106	% Recov
d8-Toluene	121	% Recov
d4-1,2-Dichlorobenzene+	295	% Recov
1,2-Dichloroethane-d4 +	143	% Recov

Tent Ident - VOA Sca	Sediment Result	Units
p-Isopropyltoluene	18000NJ*	ug/kg
NAPHTHALENE, 1,2,3,4-T+	3600NJ*	ug/kg
BENZENE, 1,2,3-TRIMETH+	3400NJ*	ug/kg
UNKNOWN HYDROCARBONS (+	18000NJ*	ug/kg
1H-INDENE, 2,3-DIHYDRO+	25000NJ*	ug/kg

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	440NJ*	ug/kg
2,4-Dinitrophenol	REJ	ug/kg
Dibenzo(a,h)anthracene	2100U	ug/kg
Benzo(a)anthracene	3000 *	ug/kg
4-Chloro-3-Methylphenol	REJ	ug/kg
Benzoic acid	REJ	ug/kg
Hexachloroethane	830U	ug/kg
Hexachlorocyclopentadi+	4300U	ug/kg
Isophorone	830U	ug/kg
Acenaphthene	2700NJ*	ug/kg
Diethylphthalate	830U	ug/kg
Di-n-Butylphthalate	830U	ug/kg
Phenanthrene	14000 *	ug/kg
Butylbenzylphthalate	2100U	ug/kg
N-Nitrosodiphenylamine	11000UJ	ug/kg
Fluorene	3000 *	ug/kg
Carbazole	4300UJ	ug/kg
Hexachlorobutadiene	2100U	ug/kg
Pentachlorophenol	REJ	ug/kg
2,4,6-Trichlorophenol	REJ	ug/kg
2-Nitroaniline	2100U	ug/kg
2-Nitrophenol	REJ	ug/kg
Naphthalene, 1-Methyl-	26000 *	ug/kg
Naphthalene	2700NJ*	ug/kg
2-Methylnaphthalene	15000 *	ug/kg
2-Chloronaphthalene	830U	ug/kg
3,3'-Dichlorobenzidine	21000U	ug/kg
2-Methylphenol	REJ	ug/kg
1,2-Dichlorobenzene	830U	ug/kg
o-Chlorophenol (2-Chlo+	REJ	ug/kg
2,4,5-Trichlorophenol	REJ	ug/kg
Nitrobenzene	830U	ug/kg
3-Nitroaniline	REJ	ug/kg
4-Nitroaniline	11000U	ug/kg
4-Nitrophenol	REJ	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Benzyl Alcohol	4300U	ug/kg
4-Bromophenyl-phenylet+	830U	ug/kg
2,4-Dimethylphenol	REJ	ug/kg
4-Methylphenol	REJ	ug/kg
1,4-Dichlorobenzene	830U	ug/kg
4-Chloroaniline	11000UJ	ug/kg
Phenol	REJ	ug/kg
bis(2-Chloroethyl)Ether	830U	ug/kg
bis(2-Chloroethoxy)Met+	830U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	830U	ug/kg
Di-n-Octyl Phthalate	830U	ug/kg
Hexachlorobenzene	830UJ	ug/kg
Anthracene	120NJ*	ug/kg
1,2,4-Trichlorobenzene	830U	ug/kg
2,4-Dichlorophenol	REJ	ug/kg
2,4-Dinitrotoluene	2100U	ug/kg
Pyrene	7000 *	ug/kg
Dimethylphthalate	830U	ug/kg
Dibenzofuran	830U	ug/kg
Benzo(ghi)perylene	830U	ug/kg
Indeno(1,2,3-cd)pyrene	190NJ*	ug/kg
Benzo(b)fluoranthene	1000NJ*	ug/kg
Fluoranthene	5700NJ*	ug/kg
Benzo(k)fluoranthene	830U	ug/kg
Acenaphthylene	30NJ*	ug/kg
Chrysene	3300 *	ug/kg
Retene	830U	ug/kg
4,6-Dinitro-2-methylph+	REJ	ug/kg
1,3-Dichlorobenzene	830U	ug/kg
2,6-Dinitrotoluene	2100U	ug/kg
N-Nitroso-di-n-Propyla+	830UJ	ug/kg
4-Chlorophenyl-phenyle+	830U	ug/kg
BIS(2OCHLOROISOPROPYL)+	830UJ	ug/kg
Surrog: 2-Fluorobiphen+	138	% Recov
Surrog: 2-Fluorophenol	41	% Recov
Surrog: D14-Terphenyl	91	% Recov
PYRENE-D10 (SS)	84	% Recov
Surrog: D5-Nitrobenzene	101	% Recov
Surrog: D5-Phenol	0	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352368 Description: SS03-1 Source: Sediment (General)

Begin Date: 92/08/26 11:45

Tent Ident - B/N/Acl	Sediment Result	Units
4-HYDROXY-4-METHYLPENT+	19000NJ*	ug/kg
PHENOL, 2-FLUORO-	520NJ*	ug/kg
NAPHTHALENE, 1-METHYL-+	14000NJ*	ug/kg
GLYCOCYANIDINE	280NJ*	ug/kg
NAPHTHALENE, 1,5-DIMET+	150000NJ*	ug/kg
NAPHTHALENE, 1,3-DIMET+	170000NJ*	ug/kg
2-Hexanone	2300NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	990NJ*	ug/kg
3-HEXANOL	2900NJ*	ug/kg
2-HEXANOL	3600NJ*	ug/kg
1,1'-BIPHENYL, 4-METNY+	130000NJ*	ug/kg
NAPHTHALENE, 2,3,6-TRI+	66000NJ*	ug/kg
2-CYCLOHEXEN-1-ONE, 3,+	470NJ*	ug/kg
7-OXABICYCLO[4.1.0]HEP+	250NJ*	ug/kg
2,8-DIMETHYLDIBENZO[B,+	110000NJ*	ug/kg
9H-FLUORENE, 2-METHYL-	14000NJ*	ug/kg
CYCLOPENTANOL, 1-METNY+	3500NJ*	ug/kg
1,1'-BIPHENYL, 2-ETNYL-	30000NJ*	ug/kg
NAPHTHALENE, 2-(1-METH+	90000NJ*	ug/kg
NAPHTHALENE, 1,4,5-TRI+	70000NJ*	ug/kg
NAPHTHALENE, 1,4,6-TRI+	50000NJ*	ug/kg
NAPHTHALENE, 1,6,7-TRI+	110000NJ*	ug/kg
NAPHTHALENE, 1-(2-PROP+	57000NJ*	ug/kg
2-HEXANONE, 6-(ACETYLO+	1400NJ*	ug/kg
UNKNOWN HYDROCARBON 1	44000NJ*	ug/kg
UNKNOWN HYDROCARBON 2	89000NJ*	ug/kg
UNKNOWN HYDROCARBON 3	55000NJ*	ug/kg
UNKNOWN COMPOUND 1	2800NJ*	ug/kg
UNKNOWN COMPOUND 2	660NJ*	ug/kg
UNKNOWN COMPOUND 3	630NJ*	ug/kg
UNKNOWN COMPOUND 4	1400NJ*	ug/kg
UNKNOWN COMPOUND 5	770NJ*	ug/kg
UNKNOWN COMPOUND 6	850NJ*	ug/kg
UNKNOWN COMPOUND 7	1100NJ*	ug/kg
UNKNOWN COMPOUND 8	5600NJ*	ug/kg
UNKNOWN COMPOUND 9	12000NJ*	ug/kg
UNKNOWN COMPOUND 10	2500NJ*	ug/kg
UNKNOWN COMPOUND 11	430NJ*	ug/kg
UNKNOWN COMPOUND 12	1500NJ*	ug/kg
UNKNOWN COMPOUND 13	850NJ*	ug/kg
UNKNOWN COMPOUND 14	2400NJ*	ug/kg
UNKNOWN COMPOUND-15	6700NJ*	ug/kg
BENZENE, 1,1'-[(METHYL+	14000NJ*	ug/kg
DIBENZOTHIOPHENE, 3-ME+	21000NJ*	ug/kg
NAPHTHALENE, 1-(1,1-DI+	320000NJ*	ug/kg

Tent Ident - B/N/Acl *** Continued ***	Sediment Result	Units
1-PHENANTHRENEMETHANOL+	900NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	2500NJ*	ug/kg
METHYLDIBENZOTHIOPHENE	15000NJ*	ug/kg
1-HEXADECANOL	2900NJ*	ug/kg
1-HEXADECANOL	2300NJ*	ug/kg
HEPTADECANE, 2,6-DIMET+	1900NJ*	ug/kg
IRON, TRICARBONYL[N-PH+	1500NJ*	ug/kg

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	43U	ug/kg
Chlordane (Tech)	43U	ug/kg
gamma-BHC (Lindane)	43U	ug/kg
Dieldrin	43UJ	ug/kg
Endrin	43UJ	ug/kg
Methoxychlor	43UJ	ug/kg
4;4'-DDD	43U	ug/kg
4,4'-DDE	43U	ug/kg
Heptachlor	43U	ug/kg
Aldrin	43U	ug/kg
alpha-BHC	43U	ug/kg
beta-BHC	43U	ug/kg
delta-BHC	43U	ug/kg
Endosulfan I	43UJ	ug/kg
Heptachlor Epoxide	43U	ug/kg
Endosulfan sulfate	43U	ug/kg
Endrin aldehyde	43U	ug/kg
Toxaphene	260U	ug/kg
PCB - 1260	350 *	ug/kg
PCB - 1254	43U	ug/kg
PCB - 1221	43U	ug/kg
PCB - 1232	43U	ug/kg
PCB - 1248	43U	ug/kg
PCB - 1016	43U	ug/kg
Endosulfan II	43U	ug/kg
PCB - 1242	43U	ug/kg
Endrin Ketone	43U	ug/kg
Surrog: 2,4,6-Tribromo+	124	% Recov
DIBUTYLCHLORENDATE (SS)	40	% Recov
DECACHLOROBIPHENYL	97	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352369 Description: SS03-2 Source: Sediment (General)

Begin Date: 92/08/26 11:45

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - Specified Matrix Spike #1		Sediment Result	Units
Mercury	Hg-Sedmt	53	% Recov

Metals - Specified Matrix Spike #2		Sediment Result	Units
Mercury	Hg-Sedmt	62	% Recov

Metals - Specified Duplicate #1		Sediment Result	Units
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	1460 *	mg/kg-dr
Magnesium	Mg-Sedmt	2070 *	mg/kg-dr
Sodium	Na-Sedmt	430B*	mg/kg-dr
Potassium	K -Sedmt	240 *	mg/kg-dr
Arsenic	As-Sedmt	5.3P*	mg/kg-dr
Barium	Ba-Sedmt	21.0 *	mg/kg-dr
Beryllium	Be-Sedmt	0.37P*	mg/kg-dr
Cadmium	Cd-Sedmt	0.33P*	mg/kg-dr
Chromium	Cr-Sedmt	8.77 *	mg/kg-dr
Cobalt	Co-Sedmt	4.79 *	mg/kg-dr
Copper	Cu-Sedmt	43.6 *	mg/kg-dr
Lead	Pb-Sedmt	31.0 *	mg/kg-dr
Manganese	Mn-Sedmt	96.0 *	mg/kg-dr
Nickel	Ni-Sedmt	16.9 *	mg/kg-dr
Silver	Ag-Sedmt	1.35N*	mg/kg-dr
Vanadium	V -Sedmt	46.2 *	mg/kg-dr
Zinc	Zn-Sedmt	41.9 *	mg/kg-dr
Antimony	Sb-Sedmt	2.9UN	mg/kg-dr
Aluminum	Al-Sedmt	3880 *	mg/kg-dr

Metals - ICP Scan *** Continued ***		Sediment Result	Units
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	8210 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	350UJ	ug/kg
Acetone	1700U	ug/kg
Chloroform	350UJ	ug/kg
Benzene	350U	ug/kg
1,1,1-Trichloroethane	350UJ	ug/kg
Bromomethane	350U	ug/kg
Chloromethane	350UJ	ug/kg
Dibromomethane	350U	ug/kg
Bromochloromethane	350U	ug/kg
Chloroethene	350UJ	ug/kg
Vinyl Chloride	350U	ug/kg
Methylene Chloride	1700U	ug/kg
Carbon Disulfide	1700U	ug/kg
Bromoform	350U	ug/kg
Bromodichloromethane	350UJ	ug/kg
1,1-Dichloroethane	350UJ	ug/kg
1,1-Dichloroethene	350U	ug/kg
Trichlorofluoromethane	350UJ	ug/kg
Methane, Dichlorodiflu+	1700UJ	ug/kg
1,2-Dichloropropane	350U	ug/kg
2-Butenone	1700U	ug/kg
1,1,2-Trichloroethane	350U	ug/kg
Ethene, trichloro-	350U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	350U	ug/kg
1,2,3-Trichlorobenzene	350U	ug/kg
Hexachlorobutadiene	350U	ug/kg
Naphthalene	6400 *	ug/kg
2-Chlorotoluene	350U	ug/kg
1,2-Dichlorobenzene	350U	ug/kg
1,2,4-Trimethylbenzene	5900 *	ug/kg
1,2-Dibromo-3-chloropr+	1700U	ug/kg
1,2,3-Trichloropropane	350U	ug/kg
Tert-Butylbenzene	350U	ug/kg
Isopropylbenzene (Cums+	350U	ug/kg
p-Isopropyltoluene	1500 *	ug/kg
Ethylbenzene	65J*	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
BENZENE, ETHENYL-(STYR+	350U	ug/kg
BENZENE, PROPYL-	110J*	ug/kg
Butylbenzene	350U	ug/kg
4-Chlorotoluene	350U	ug/kg
1,4-Dichlorobenzene	350U	ug/kg
1,2-Dibromoethane (EDB)	350U	ug/kg
1,2-Dichloroethane	350UJ	ug/kg
4-Methyl-2-Pentanone(M+	350U	ug/kg
1,3,5-Trimethylbenzene	5000J*	ug/kg
Bromobenzene	350U	ug/kg
Toluene	49J*	ug/kg
Chlorobenzene	350U	ug/kg
1,2,4-Trichlorobenzene	350U	ug/kg
Dibromochloromethane	350U	ug/kg
Tetrachloroethene	350U	ug/kg
Sec-Butylbenzene	350U	ug/kg
1,3-Dichloropropane	350U	ug/kg
Cis-1,2-Dichloroethene	350U	ug/kg
trans-1,2-Dichloroethe+	350U	ug/kg
1,3-Dichlorobenzene	350U	ug/kg
1,1-Dichloropropene	350UJ	ug/kg
2-Hexanone	350U	ug/kg
2,2-Dichloropropane	350UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	350U	ug/kg
Total Xylenes	1620 *	ug/kg
cis-1,3-Dichloropropene	350U	ug/kg
trans-1,3-Dichloroprop+	350UJ	ug/kg
p-Bromofluorobenzene	106	% Recov
FLUOROBENZENE	100	% Recov
d8-Toluene	92	% Recov
d4-1,2-Dichlorobenzene+	112	% Recov
1,2-Dichloroethane-d4 +	80	% Recov

VOA - PP Scan (GCMS) Duplicate #2	Sediment Result	Units
Carbon Tetrachloride	86UJ	ug/kg
Acetone	430U	ug/kg
Chloroform	86UJ	ug/kg
Benzene	86U	ug/kg
1,1,1-Trichloroethane	86UJ	ug/kg
Bromomethane	86U	ug/kg
Chloromethane	86UJ	ug/kg

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: M2R Account: FA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352369 Description: SS03-2 Source: Sediment (General)

Begin Date: 92/08/26 11:45

VOA - PP Scan (GCMS) *** Continued *** Duplicate #2	Sediment Result	Units
Dibromomethane	86U	ug/kg
Bromochloromethane	86U	ug/kg
Chloroethane	83UJ	ug/kg
Vinyl Chloride	86U	ug/kg
Methylene Chloride	430U	ug/kg
Carbon Disulfide	430U	ug/kg
Bromoform	86U	ug/kg
Bromodichloromethane	86UJ	ug/kg
1,1-Dichloroethane	86UJ	ug/kg
1,1-Dichloroethene	86U	ug/kg
Trichlorofluoromethane	83UJ	ug/kg
Methane, Dichlorodiflu+	430UJ	ug/kg
1,2-Dichloropropane	86U	ug/kg
2-Butanone	430U	ug/kg
1,1,2-Trichloroethane	86U	ug/kg
Ethene, trichloro-	86U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	86U	ug/kg
1,2,3-Trichlorobenzene	86U	ug/kg
Hexachlorobutadiene	86U	ug/kg
Naphthalene	4800 *	ug/kg
2-Chlorotoluene	86U	ug/kg
1,2-Dichlorobenzene	86U	ug/kg
1,2,4-Trimethylbenzene	5700 *	ug/kg
1,2-Dibromo-3-chloropr+	430U	ug/kg
1,2,3-Trichloropropane	86U	ug/kg
Tert-Butylbenzene	86U	ug/kg
Isopropylbenzene (Cume+	48J*	ug/kg
p-Isopropyltoluene	86U	ug/kg
Ethylbenzene	71J*	ug/kg
BENZENE, ETHENYL-(STYR+	86U	ug/kg
BENZENE, PROPYL-	110 *	ug/kg
Butylbenzene	86U	ug/kg
4-Chlorotoluene	86U	ug/kg
1,4-Dichlorobenzene	86U	ug/kg
1,2-Dibromoethane (EDB)	86U	ug/kg
1,2-Dichloroethane	86UJ	ug/kg
4-Methyl-2-Pentanone(M+	86U	ug/kg
1,3,5-Trimethylbenzene	4900J*	ug/kg
Bromobenzene	86U	ug/kg
Toluene	41J*	ug/kg
Chlorobenzene	86U	ug/kg
1,2,4-Trichlorobenzene	86U	ug/kg
Dibromochloromethane	86U	ug/kg
Tetrachloroethene	86U	ug/kg

VOA - PP Scan (GCMS) *** Continued *** Duplicate #2	Sediment Result	Units
Sec-Butylbenzene	86U	ug/kg
1,3-Dichloropropane	86U	ug/kg
Cis-1,2-Dichloroethene	86U	ug/kg
trans-1,2-Dichloroethe+	86U	ug/kg
1,3-Dichlorobenzene	86U	ug/kg
1,1-Dichloropropene	86UJ	ug/kg
2-Hexanone	86U	ug/kg
2,2-Dichloropropane	86UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	86U	ug/kg
Total Xylenes	1680 *	ug/kg
cis-1,3-Dichloropropene	86U	ug/kg
trans-1,3-Dichloroprop+	86UJ	ug/kg
p-Bromofluorobenzene	136	% Recov
FLUOROBENZENE	100	% Recov
d8-Toluene	90	% Recov
d4-1,2-Dichlorobenzene+	113	% Recov
1,2-Dichloroethane-d4 +	92	% Recov

Tent Ident - VOA Sca	Sediment Result	Units
Tert-Butylbenzene	18000NJ*	ug/kg
BENZENE, 1,2,3-TRIMETH+	11000NJ*	ug/kg
BENZENE, 1-METHYL-3-(1+	19000NJ*	ug/kg
UNKNOWN HYDROCARBONS (+	13000NJ*	ug/kg
UNKNOWN BENZENES (TOTA+	61000NJ*	ug/kg
1H-INDENE, 2,3-DIHYDRO+	91000NJ*	ug/kg

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	740J*	ug/kg
2,4-Dinitrophenol	10000UJ	ug/kg
Dibenzo(a,h)anthracene	2000U	ug/kg
Benzo(a)anthracene	2200 *	ug/kg
4-Chloro-3-Methylphenol	4100U	ug/kg
Benzoic acid	10000UJ	ug/kg
Hexachloroethane	790U	ug/kg
Hexachlorocyclopentadi+	4100UJ	ug/kg
Isophorone	790U	ug/kg
Acenaphthene	8700JN*	ug/kg
Diethylphthalate	790U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Di-n-Butylphthalate	790U	ug/kg
Phenanthrene	31000 *	ug/kg
Butylbenzylphthalate	2000U	ug/kg
N-Nitrosodiphenylamine	10000UJ	ug/kg
Fluorene	11000 *	ug/kg
Carbazole	4100UJ	ug/kg
Hexachlorobutadiene	2000UJ	ug/kg
Pentachlorophenol	4100U	ug/kg
2,4,6-Trichlorophenol	2000U	ug/kg
2-Nitroaniline	2000U	ug/kg
2-Nitrophenol	2000U	ug/kg
Naphthalene, 1-Methyl-	55000 *	ug/kg
Naphthalene	6000 *	ug/kg
2-Methylnaphthalene	46000 *	ug/kg
2-Chloronaphthalene	790U	ug/kg
3,3'-Dichlorobenzidine	20000U	ug/kg
2-Methylphenol	790U	ug/kg
1,2-Dichlorobenzene	790U	ug/kg
o-Chlorophenol (2-Chlo+	790U	ug/kg
2,4,5-Trichlorophenol	4000UJ	ug/kg
Nitrobenzene	790U	ug/kg
3-Nitroaniline	10000UJ	ug/kg
4-Nitroaniline	10000U	ug/kg
4-Nitrophenol	10000U	ug/kg
Benzyl Alcohol	4100UJ	ug/kg
4-Bromophenyl-phenylet+	790U	ug/kg
2,4-Dimethylphenol	790U	ug/kg
4-Methylphenol	790U	ug/kg
1,4-Dichlorobenzene	790U	ug/kg
4-Chloroaniline	10000U	ug/kg
Phenol	790U	ug/kg
bis(2-Chloroethyl)Ether	790U	ug/kg
bis(2-Chloroethoxy)Met+	790U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	6100J*	ug/kg
Di-n-Octyl Phthalate	790UJ	ug/kg
Hexachlorobenzene	790UJ	ug/kg
Anthracene	2600J*	ug/kg
1,2,4-Trichlorobenzene	790U	ug/kg
2,4-Dichlorophenol	790U	ug/kg
2,4-Dinitrotoluene	2000U	ug/kg
Pyrene	5900 *	ug/kg
Dimethylphthalate	790U	ug/kg
Dibenzofuran	790U	ug/kg
Benzo(ghi)perylene	790U	ug/kg

(Continued on next page)

Project: TEC-975A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352369 Description: SS03-2 Source: Sediment (General)

Begin Date: 92/08/26 11:45

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Indeno(1,2,3-cd)pyrene	790U	ug/kg
Benzo(b)fluoranthene	470J*	ug/kg
Fluoranthene	1700 *	ug/kg
Benzo(k)fluoranthene	790UJ	ug/kg
Acenaphthylene	790U	ug/kg
Chrysene	2500 *	ug/kg
Retene	790U	ug/kg
4,6-Dinitro-2-methylph+	10000UJ	ug/kg
1,3-Dichlorobenzene	790U	ug/kg
2,6-Dinitrotoluene	2000U	ug/kg
N-Nitroso-di-n-Propyla+	790U	ug/kg
4-Chlorophenyl-phenyle+	790UJ	ug/kg
BIS(2OCHLOROISOPROPYL)+	790U	ug/kg
Surrog: 2-Fluorobiphen+	125	% Recov
Surrog: 2-Fluorophenol	10	% Recov
Surrog: 014-Terphenyl	84	% Recov
PYRENE-D10 (SS)	75	% Recov
Surrog: D5-Nitrobenzene	70	% Recov
Surrog: D5-Phenol	28	% Recov

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
UNKNOWN COMPOUND 7	9000NJ*	ug/kg
UNKNOWN COMPOUND 8	6600NJ*	ug/kg
UNKNOWN COMPOUND 10	15000NJ*	ug/kg
UNKNOWN COMPOUND 11	410NJ*	ug/kg
UNKNOWN COMPOUND 12	280NJ*	ug/kg
UNKNOWN COMPOUND 13	730NJ*	ug/kg
UNKNOWN COMPOUND 14	640NJ*	ug/kg
UNKNOWN COMPOUND-15	580NJ*	ug/kg
UNKNOWN COMPOUND-16	1300NJ*	ug/kg
UNKNOWN COMPOUND-17	950NJ*	ug/kg
UNKNOWN COMPOUND-18	1200NJ*	ug/kg
UNKNOWN COMPOUND-19	680NJ*	ug/kg
UNKNOWN COMPOUND-20	1400NJ*	ug/kg
UNKNOWN COMPOUND	2500NJ*	ug/kg
UNKNOWN COMPOUND	850NJ*	ug/kg
UNKNOWN COMPOUND	590NJ*	ug/kg
HEPTADECANE, 2,6-DIMET+	1900NJ*	ug/kg
NAPHTHALENE, 2-METHYL-+	11000NJ*	ug/kg
2,6-DIMETHYL-6-NITRO-2+	780NJ*	ug/kg
IRON, TRICARBONYL(N-PH+	1800NJ*	ug/kg

Pest/PCB - PP Scan *** Continued ***	Sediment Result	Units
PCB - 1254	41U	ug/kg
PCB - 1221	41U	ug/kg
PCB - 1232	41U	ug/kg
PCB - 1248	41U	ug/kg
PCB - 1016	41U	ug/kg
Endosulfan II	41U	ug/kg
PCB - 1242	41U	ug/kg
Endrin Ketone	41U	ug/kg
Surrog: 2,4,6-Tribromo+	123	% Recov
DIBUTYLCHLORENDATE (SS)	50	% Recov
DECACHLOROBIPHENYL	94	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
4-HYDROXY-4-METHYLPENT+	33000NJ*	ug/kg
2,5-HEPTADIEN-4-ONE, 2+	290NJ*	ug/kg
NAPHTHALENE, 1,5-DIMET+	22000NJ*	ug/kg
NAPHTHALENE, 1,3-DIMET+	38000NJ*	ug/kg
NAPHTHALENE, 2,7-DIMET+	62000NJ*	ug/kg
NAPHTHALENE, 2,3,6-TRI+	16000NJ*	ug/kg
1,1'-BIPHENYL, 2-ETHYL-	18000NJ*	ug/kg
NAPHTHALENE, 1,4,5-TRI+	30000NJ*	ug/kg
NAPHTHALENE, 1,4,6-TRI+	19000NJ*	ug/kg
9H-FLUORENE, 9-METHYL-	14000NJ*	ug/kg
NAPHTHALENE, 1,3,6-TRI+	17000NJ*	ug/kg
2-PENTANONE, 3-(PHENYL+	1300NJ*	ug/kg
UNKNOWN HYDROCARBON 1	32000NJ*	ug/kg
UNKNOWN HYDROCARBON 9	51000NJ*	ug/kg
UNKNOWN COMPOUND 1	23000NJ*	ug/kg
UNKNOWN COMPOUND 2	3400NJ*	ug/kg
UNKNOWN COMPOUND 3	36000NJ*	ug/kg
UNKNOWN COMPOUND 4	42000NJ*	ug/kg
UNKNOWN COMPOUND 5	3200NJ*	ug/kg
UNKNOWN COMPOUND 6	3500NJ*	ug/kg

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	41U	ug/kg
Chlordane (Tech)	41U	ug/kg
gamma-BHC (Lindane)	41U	ug/kg
Dieldrin	41UJ	ug/kg
Endrin	41UJ	ug/kg
Methoxychlor	41UJ	ug/kg
4,4'-DDD	41U	ug/kg
4,4'-DDE	41U	ug/kg
Heptachlor	41U	ug/kg
Aldrin	41U	ug/kg
alpha-BHC	41U	ug/kg
beta-BHC	41U	ug/kg
delta-BHC	41U	ug/kg
Endosulfan I	41UJ	ug/kg
Heptachlor Epoxide	41U	ug/kg
Endosulfan sulfate	41U	ug/kg
Endrin aldehyde	41U	ug/kg
Toxaphene	240U	ug/kg
PCB - 1260	170 *	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: M2R Account: FA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352370 Description: SS04-1 Source: Sediment (General)

Begin Date: 92/08/26 12:00

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20UN	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.021N*	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	4920 *	mg/kg-dr
Magnesium	Mg-Sedmt	4680 *	mg/kg-dr
Sodium	Na-Sedmt	616B*	mg/kg-dr
Potassium	K -Sedmt	1710 *	mg/kg-dr
Arsenic	As-Sedmt	21.1 *	mg/kg-dr
Barium	Ba-Sedmt	91.9 *	mg/kg-dr
Beryllium	Be-Sedmt	0.42P*	mg/kg-dr
Cadmium	Cd-Sedmt	1.5P*	mg/kg-dr
Chromium	Cr-Sedmt	15.3 *	mg/kg-dr
Cobalt	Co-Sedmt	8.22 *	mg/kg-dr
Copper	Cu-Sedmt	56.0 *	mg/kg-dr
Lead	Pb-Sedmt	60.6 *	mg/kg-dr
Mangnese	Mn-Sedmt	322 *	mg/kg-dr
Nickel	Ni-Sedmt	13.8 *	mg/kg-dr
Silver	Ag-Sedmt	3.28 *	mg/kg-dr
Vanadium	V -Sedmt	16.2 *	mg/kg-dr
Zinc	Zn-Sedmt	196 *	mg/kg-dr
Antimony	Sb-Sedmt	3.7UN	mg/kg-dr
Aluminum	Al-Sedmt	7710 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	17600 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

VOA - PP Scan (GCMS)		Sediment Result	Units
Carbon Tetrachloride		3UJ	ug/kg
Acetone		16UJ	ug/kg
Chloroform		3U	ug/kg
Benzene		3U	ug/kg
1,1,1-Trichloroethane		3UJ	ug/kg
Bromomethane		3U	ug/kg
Chloromethane		3UJ	ug/kg
Dibromomethane		3U	ug/kg
Bromochloromethane		3U	ug/kg
Chloroethane		3UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Vinyl Chloride	3UJ	ug/kg
Methylene Chloride	16U	ug/kg
Carbon Disulfide	16U	ug/kg
Bromoform	3U	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethane	3U	ug/kg
1,1-Dichloroethene	3U	ug/kg
Trichlorofluoromethane	3UJ	ug/kg
Methane, Dichlorodiflu+	16UJ	ug/kg
1,2-Dichloropropane	3U	ug/kg
2-Butanone	16U	ug/kg
1,1,2-Trichloroethane	3U	ug/kg
Ethene, trichloro-	3U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3U	ug/kg
1,2,3-Trichlorobenzene	3U	ug/kg
Hexachlorobutadiene	3U	ug/kg
Naphthalene	3U	ug/kg
2-Chlorotoluene	3U	ug/kg
1,2-Dichlorobenzene	3U	ug/kg
1,2,4-Trimethylbenzene	3U	ug/kg
1,2-Dibromo-3-chloropr+	16U	ug/kg
1,2,3-Trichloropropane	3U	ug/kg
Tert-Butylbenzene	3U	ug/kg
Isopropylbenzene (Cume+	3U	ug/kg
p-Isopropyltoluene	3U	ug/kg
Ethylbenzene	3U	ug/kg
BENZENE, ETHENYL-(STYR+	3U	ug/kg
BENZENE, PROPYL-	3U	ug/kg
Butylbenzene	3U	ug/kg
4-Chlorotoluene	3U	ug/kg
1,4-Dichlorobenzene	3U	ug/kg
1,2-Dibromoethane (EDB)	3U	ug/kg
1,2-Dichloroethane	3UJ	ug/kg
4-Methyl-2-Pentanone(M+	3U	ug/kg
1,3,5-Trimethylbenzene	3UJ	ug/kg
Bromobenzene	3U	ug/kg
Toluene	3U	ug/kg
Chlorobenzene	3U	ug/kg
1,2,4-Trichlorobenzene	3U	ug/kg
Dibromochloromethane	3U	ug/kg
Tetrachloroethene	3U	ug/kg
Sec-Butylbenzene	3U	ug/kg
1,3-Dichloropropane	3U	ug/kg
Cis-1,2-Dichloroethene	3U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
trans-1,2-Dichloroethe+	3U	ug/kg
1,3-Dichlorobenzene	3U	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3U	ug/kg
2,2-Dichloropropane	3U	ug/kg
Ethane, 1,1,1,2-Tetrac+	3U	ug/kg
Total Xylenes	3U	ug/kg
cis-1,3-Dichloropropene	3U	ug/kg
trans-1,3-Dichloroprop+	3U	ug/kg
p-Bromofluorobenzene	84	% Recov
FLUOROBENZENE	100	% Recov
d8-Toluene	101	% Recov
d4-1,2-Dichlorobenzene+	101	% Recov
1,2-Dichloroethane-d4 +	117	% Recov

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	680U	ug/kg
2,4-Dinitrophenol	8900UJ	ug/kg
Dibenzo(a,h)anthracene	1700U	ug/kg
Benzo(a)anthracene	680U	ug/kg
4-Chloro-3-Methylphenol	3500U	ug/kg
Benzoic acid	8900UJ	ug/kg
Hexachloroethane	680U	ug/kg
Hexachlorocyclopentadi+	3500UJ	ug/kg
Isophorone	13J*	ug/kg
Acenaphthene	680U	ug/kg
Diethylphthalate	680U	ug/kg
Di-n-Butylphthalate	680U	ug/kg
Phenanthrene	220J*	ug/kg
Butylbenzylphthalate	1700U	ug/kg
N-Nitrosodiphenylamine	27J*	ug/kg
Fluorene	680U	ug/kg
Carbazole	3500UJ	ug/kg
Hexachlorobutadiene	1700U	ug/kg
Pentachlorophenol	3500U	ug/kg
2,4,6-Trichlorophenol	1700U	ug/kg
2-Nitroaniline	1700U	ug/kg
2-Nitrophenol	1700U	ug/kg
Naphthalene, 1-Methyl-	150J*	ug/kg
Naphthalene	93J*	ug/kg
2-Methylnaphthalene	150J*	ug/kg

(Continued on next page)

Project: TEC-573A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU22

aboratory: EPA, Manchester

Sample No: 92 352370 Description: SS04-1 Source: Sediment (General)

Begin Date: 92/08/26 12:00

B/N/Acid Scan *** Continued ***	Sediment Result	Units
2-Chloronaphthalene	680U	ug/kg
3,3'-Dichlorobenzidine	17000U	ug/kg
2-Methylphenol	680U	ug/kg
1,2-Dichlorobenzene	680U	ug/kg
o-Chlorophenol (2-Chlo+	680U	ug/kg
2,4,5-Trichlorophenol	3500U	ug/kg
Nitrobenzene	680U	ug/kg
3-Nitroaniline	8900UJ	ug/kg
4-Nitroaniline	8900U	ug/kg
4-Nitrophenol	8900U	ug/kg
Benzyl Alcohol	3500U	ug/kg
4-Bromophenyl-phenylet+	680UJ	ug/kg
2,4-Dimethylphenol	680U	ug/kg
4-Methylphenol	680U	ug/kg
1,4-Dichlorobenzene	680U	ug/kg
4-Chloroaniline	8900U	ug/kg
Phenol	680U	ug/kg
bis(2-Chloroethyl)Ether	680U	ug/kg
bis(2-Chloroethoxy)Met+	680U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	680U	ug/kg
Di-n-Octyl Phthalate	680U	ug/kg
Hexachlorobenzene	680UJ	ug/kg
Anthracene	38J*	ug/kg
1,2,4-Trichlorobenzene	680U	ug/kg
2,4-Dichlorophenol	680U	ug/kg
2,4-Dinitrotoluene	1700U	ug/kg
Pyrene	110J*	ug/kg
Dimethylphthalate	680U	ug/kg
Dibenzofuran	62J*	ug/kg
Benzo(ghi)perylene	680U	ug/kg
Indeno(1,2,3-cd)pyrene	680U	ug/kg
Benzo(b)fluoranthene	680U	ug/kg
Fluoranthene	120J*	ug/kg
Benzo(k)fluoranthene	680UJ	ug/kg
Acenaphthylene	680U	ug/kg
Chrysene	680U	ug/kg
Retene	140J*	ug/kg
4,6-Dinitro-2-methylph+	8900UJ	ug/kg
1,3-Dichlorobenzene	680U	ug/kg
2,6-Dinitrotoluene	1700U	ug/kg
N-Nitroso-di-n-Propyla+	680UJ	ug/kg
4-Chlorophenyl-phenyle+	680U	ug/kg
BIS(2OCHLOROISOPROPYL)+	680UJ	ug/kg
Surrog: 2-Fluorobiphen+	102	% Recov
Surrog: 2-Fluorophenol	29	% Recov
Surrog: D14-Terphenyl	107	% Recov
PYRENE-D10 (SS)	58	% Recov
Surrog: D5-Nitrobenzene	73	% Recov
Surrog: D5-Phenol	28	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
ETHANE, 1,1,2,2-TETRAC+	1600NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	9300NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	850NJ*	ug/kg
2-CYCLOHEXEN-1-ONE, 3,+	270NJ*	ug/kg
1,3-DIOXOLANE, 2,2,4-T+	340NJ*	ug/kg
UNKNOWN HYDROCARBON 1	1080NJ*	ug/kg
UNKNOWN COMPOUND 1	1300NJ*	ug/kg
UNKNOWN COMPOUND 2	440NJ*	ug/kg
UNKNOWN COMPOUND 3	170NJ*	ug/kg
UNKNOWN COMPOUND 4	500NJ*	ug/kg
2-HEXANONE, 6-BROMO-	1900NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	620NJ*	ug/kg
BUTANE, 2,2-DICHLORO-3+	250NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	2600NJ*	ug/kg
2-BUTANONE, 3-METHOXY-+	140NJ*	ug/kg
1,E-4,Z-8-DODECATRIENE	270NJ*	ug/kg

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	6U	ug/kg
Chlordane (Tech)	56U	ug/kg
gamma-BHC (Lindane)	6U	ug/kg
Dieldrin	6U	ug/kg
Endrin	6U	ug/kg
Methoxychlor	6U	ug/kg
4,4'-DDD	6U	ug/kg
4,4'-DDE	6U	ug/kg
Heptachlor	6U	ug/kg
Aldrin	6U	ug/kg
alpha-BHC	6U	ug/kg
beta-BHC	6U	ug/kg
delta-BHC	6U	ug/kg

Pest/PCB - PP Scan *** Continued ***	Sediment Result	Units
Endosulfan I	6U	ug/kg
Heptachlor Epoxide	6U	ug/kg
Endosulfan sulfate	6U	ug/kg
Endrin aldehyde	6U	ug/kg
Toxaphene	340U	ug/kg
PCB - 1260	410 *	ug/kg
PCB - 1254	56U	ug/kg
PCB - 1221	56U	ug/kg
PCB - 1232	56U	ug/kg
PCB - 1248	56U	ug/kg
PCB - 1016	56U	ug/kg
Endosulfan II	6U	ug/kg
PCB - 1242	56U	ug/kg
Endrin Ketone	6U	ug/kg
Surrog: 2,4,6-Tribromo+	121	% Recov
DIBUTYLCHLORENDATE (SS)	82	% Recov
DECACHLOROBIPHENYL	79	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352371 Description: SS04-2 Source: Sediment (General)

Begin Date: 92/08/26 12:00

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20UN	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.040N*	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	4420 *	mg/kg-dr
Magnesium	Mg-Sedmt	6410 *	mg/kg-dr
Sodium	Na-Sedmt	665B*	mg/kg-dr
Potassium	K -Sedmt	2490 *	mg/kg-dr
Arsenic	As-Sedmt	40.7 *	mg/kg-dr
Barium	Ba-Sedmt	137 *	mg/kg-dr
Beryllium	Be-Sedmt	0.572 *	mg/kg-dr
Cadmium	Cd-Sedmt	0.49P*	mg/kg-dr
Chromium	Cr-Sedmt	10.3 *	mg/kg-dr
Cobalt	Co-Sedmt	9.21 *	mg/kg-dr
Copper	Cu-Sedmt	34.8 *	mg/kg-dr
Lead	Pb-Sedmt	47.8 *	mg/kg-dr
Manganese	Mn-Sedmt	502 *	mg/kg-dr
Nickel	Ni-Sedmt	13.7 *	mg/kg-dr
Silver	Ag-Sedmt	3.60 *	mg/kg-dr
Vanadium	V -Sedmt	15.3 *	mg/kg-dr
Zinc	Zn-Sedmt	97.8 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	12500 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	19600 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	12U	ug/kg
Chloroform	3UJ	ug/kg
Benzene	3U	ug/kg
1,1,1-Trichloroethane	3UJ	ug/kg
Bromomethane	3U	ug/kg
Chloromethane	3UJ	ug/kg
Dibromomethane	3U	ug/kg
Bromochloromethane	3U	ug/kg
Chloroethane	3UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Vinyl Chloride	3UJ	ug/kg
Methylene Chloride	14U	ug/kg
Carbon Disulfide	14U	ug/kg
Bromoform	3U	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethane	3U	ug/kg
1,1-Dichloroethene	3U	ug/kg
Trichlorofluoromethane	3UJ	ug/kg
Methane, Dichlorodiflu+	3UJ	ug/kg
1,2-Dichloropropane	3U	ug/kg
2-Butanone	3U	ug/kg
1,1,2-Trichloroethane	3U	ug/kg
Ethene, trichloro-	3U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3U	ug/kg
1,2,3-Trichlorobenzene	3U	ug/kg
Hexachlorobutadiene	3U	ug/kg
Naphthalene	3U	ug/kg
2-Chlorotoluene	3U	ug/kg
1,2-Dichlorobenzene	3U	ug/kg
1,2,4-Trimethylbenzene	3U	ug/kg
1,2-Dibromo-3-chloropr+	14U	ug/kg
1,2,3-Trichloropropane	3U	ug/kg
Tert-Butylbenzene	3U	ug/kg
Isopropylbenzene (Cume+	3U	ug/kg
p-Isopropyltoluene	3U	ug/kg
Ethylbenzene	3U	ug/kg
BENZENE, ETHENYL-(STYR+	3U	ug/kg
BENZENE, PROPYL-	3U	ug/kg
Butylbenzene	3U	ug/kg
4-Chlorotoluene	3U	ug/kg
1,4-Dichlorobenzene	3U	ug/kg
1,2-Dibromoethane (EDB)	3U	ug/kg
1,2-Dichloroethane	3UJ	ug/kg
4-Methyl-2-Pentanone(M+	3U	ug/kg
1,3,5-Trimethylbenzene	3U	ug/kg
Bromobenzene	3U	ug/kg
Toluene	3U	ug/kg
Chlorobenzene	3U	ug/kg
1,2,4-Trichlorobenzene	3U	ug/kg
Dibromochloromethane	3U	ug/kg
Tetrachloroethene	3U	ug/kg
Sec-Butylbenzene	3U	ug/kg
1,3-Dichloropropane	3U	ug/kg
Cis-1,2-Dichloroethene	3U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
trans-1,2-Dichloroethe+	3U	ug/kg
1,3-Dichlorobenzene	3U	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3U	ug/kg
2,2-Dichloropropane	3UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	3U	ug/kg
Total Xylenes	3U	ug/kg
cis-1,3-Dichloropropene	3U	ug/kg
trans-1,3-Dichloroprop+	3U	ug/kg
p-Bromofluorobenzene	89	% Recov
FLUOROBENZENE	100	% Recov
d8-Toluene	103	% Recov
d4-1,2-Dichlorobenzene+	104	% Recov
1,2-Dichloroethane-d4 +	124	% Recov

Tent Ident - VOA Sca	Sediment Result	Units
UNKNOWN HYDROCARBONS	2.4NJ*	ug/kg

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	16NJ*	ug/kg
2,4-Dinitrophenol	3500UJ	ug/kg
Dibenzo(a,h)anthracene	670UJ	ug/kg
Benzo(a)anthracene	28NJ*	ug/kg
4-Chloro-3-Methylphenol	1400UJ	ug/kg
Benzoic acid	3500UJ	ug/kg
Hexachloroethane	260UJ	ug/kg
Hexachlorocyclopentadi+	1400UJ	ug/kg
Isophorone	47J*	ug/kg
Acenaphthene	260UJ	ug/kg
Diethylphthalate	260UJ	ug/kg
Di-n-Butylphthalate	260U	ug/kg
Phenanthrene	27J*	ug/kg
Butylbenzylphthalate	670UJ	ug/kg
N-Nitrosodiphenylamine	3500UJ	ug/kg
Fluorene	2J*	ug/kg
Carbazole	1400UJ	ug/kg
Hexachlorobutadiene	670UJ	ug/kg
Pentachlorophenol	1400UJ	ug/kg

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352371 Description: SS04-2 Source: Sediment (General)

Begin Date: 92/08/26 12:00

B/N/Acid Scan *** Continued ***	Sediment Result	Units
2,4,6-Trichlorophenol	670UJ	ug/kg
2-Nitroaniline	670UJ	ug/kg
2-Nitrophenol	670UJ	ug/kg
Naphthalene, 1-Methyl-	14NJ*	ug/kg
Naphthalene	11J*	ug/kg
2-Methylnaphthalene	16J*	ug/kg
2-Chloronaphthalene	260UJ	ug/kg
3,3'-Dichlorobenzidine	6700UJ	ug/kg
2-Methylphenol	260UJ	ug/kg
1,2-Dichlorobenzene	260UJ	ug/kg
o-Chlorophenol (2-Chlo+	260UJ	ug/kg
2,4,5-Trichlorophenol	1300UJ	ug/kg
Nitrobenzene	260UJ	ug/kg
3-Nitroaniline	3500UJ	ug/kg
4-Nitroaniline	3500UJ	ug/kg
4-Nitrophenol	3500UJ	ug/kg
Benzyl Alcohol	1400UJ	ug/kg
4-Bromophenyl-phenylet+	260UJ	ug/kg
2,4-Dimethylphenol	260UJ	ug/kg
4-Methylphenol	260UJ	ug/kg
1,4-Dichlorobenzene	260UJ	ug/kg
4-Chloroaniline	3500UJ	ug/kg
Phenol	260UJ	ug/kg
bis(2-Chloroethyl)Ether	260UJ	ug/kg
bis(2-Chloroethoxy)Met+	260UJ	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	1300U	ug/kg
Di-n-Octyl Phthalate	260U	ug/kg
Hexachlorobenzene	260UJ	ug/kg
Anthracene	3J*	ug/kg
1,2,4-Trichlorobenzene	260UJ	ug/kg
2,4-Dichlorophenol	260UJ	ug/kg
2,4-Dinitrotoluene	670UJ	ug/kg
Pyrene	39J*	ug/kg
Dimethylphthalate	260UJ	ug/kg
Dibenzofuran	5J*	ug/kg
Benzo(ghi)perylene	260UJ	ug/kg
Indeno(1,2,3-cd)pyrene	16NJ*	ug/kg
Benzo(b)fluoranthene	43J*	ug/kg
Fluoranthene	50J*	ug/kg
Benzo(k)fluoranthene	20NJ*	ug/kg
Acenaphthylene	260UJ	ug/kg
Chrysene	32J*	ug/kg
Retene	37NJ*	ug/kg
4,6-Dinitro-2-methylph+	3500UJ	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
1,3-Dichlorobenzene	260UJ	ug/kg
2,6-Dinitrotoluene	670UJ	ug/kg
N-Nitroso-di-n-Propyla+	260UJ	ug/kg
4-Chlorophenyl-phenyle+	260UJ	ug/kg
BIS(2OCHLOROISOPROPYL)+	260UJ	ug/kg
Surrog: 2-Fluorobiphen+	24	% Recov
Surrog: 2-Fluorophenol	24	% Recov
Surrog: D14-Terphenyl	28	% Recov
PYRENE-D10 (SS)	21	% Recov
Surrog: D5-Nitrobenzene	18	% Recov
Surrog: D5-Phenol	17	% Recov

B/N/Acid Scan Matrix Spike #1	Sediment Result	Units
Benzo(a)pyrene	0.3	% Recov
2,4-Dinitrophenol	0.002UJ	% Recov
Dibenzo(a,h)anthracene	0.0003U	% Recov
Benzo(a)anthracene	0.5	% Recov
4-Chloro-3-Methylphenol	25J	% Recov
Benzoic acid	0.002UJ	% Recov
Hexachloroethane	0.0001U	% Recov
Hexachlorocyclopentadi+	0.0007UJ	% Recov
Isophorone	40	% Recov
Acenaphthene	0.0001U	% Recov
Diethylphthalate	0.6	% Recov
Di-n-Butylphthalate	0.5	% Recov
Phenanthrene	0.2U	% Recov
Butylbenzylphthalate	0.7J	% Recov
N-Nitrosodiphenylamine	0.8J	% Recov
Fluorene	0.0001U	% Recov
Carbazole	0.0007UJ	% Recov
Hexachlorobutadiene	0.0003U	% Recov
Pentachlorophenol	0.0007U	% Recov
2,4,6-Trichlorophenol	0.0003U	% Recov
2-Nitroaniline	25	% Recov
2-Nitrophenol	0.0003U	% Recov
Naphthalene, 1-Methyl-	0.0001U	% Recov
Naphthalene	0.0001U	% Recov
2-Methylnaphthalene	0.0001U	% Recov
2-Chloronaphthalene	0.0001U	% Recov
3,3'-Dichlorobenzidine	0.003U	% Recov
2-Methylphenol	24	% Recov

B/N/Acid Scan *** Continued *** Matrix Spike #1	Result	Units
1,2-Dichlorobenzene	0.0001U	% Recov
o-Chlorophenol (2-Chlo+	20	% Recov
2,4,5-Trichlorophenol	0.0007U	% Recov
Nitrobenzene	0.0001U	% Recov
3-Nitroaniline	0.002UJ	% Recov
4-Nitroaniline	0.002U	% Recov
4-Nitrophenol	0.002U	% Recov
Benzyl Alcohol	32	% Recov
4-Bromophenyl-phenylet+	0.0001U	% Recov
2,4-Dimethylphenol	16	% Recov
4-Methylphenol	20	% Recov
1,4-Dichlorobenzene	0.0001U	% Recov
4-Chloroaniline	0.002U	% Recov
Phenol	18	% Recov
bis(2-Chloroethyl)Ether	0.0001U	% Recov
bis(2-Chloroethoxy)Met+	0.0001U	% Recov
BIS(2-ETHYLHEXYL) PHTH+	0.6J	% Recov
Di-n-Octyl Phthalate	0.6J	% Recov
Hexachlorobenzene	0.0001U	% Recov
Anthracene	0.2	% Recov
1,2,4-Trichlorobenzene	0.0001U	% Recov
2,4-Dichlorophenol	10	% Recov
2,4-Dinitrotoluene	0.0003U	% Recov
Pyrene	0.3	% Recov
Dimethylphthalate	0.5	% Recov
Dibenzofuran	0.0001U	% Recov
Benzo(ghi)perylene	0.0001U	% Recov
Indeno(1,2,3-cd)pyrene	0.0001U	% Recov
Benzo(b)fluoranthene	0.3	% Recov
Fluoranthene	0.3	% Recov
Benzo(k)fluoranthene	0.6	% Recov
Acenaphthylene	0.2	% Recov
Chrysene	0.6	% Recov
Retene	0.3	% Recov
4,6-Dinitro-2-methylph+	0.002UJ	% Recov
1,3-Dichlorobenzene	0.0001U	% Recov
2,6-Dinitrotoluene	0.0003U	% Recov
N-Nitroso-di-n-Propyla+	27	% Recov
4-Chlorophenyl-phenyle+	0.0001U	% Recov
BIS(2OCHLOROISOPROPYL)+	0.0001U	% Recov
Surrog: 2-Fluorobiphen+	0	% Recov
Surrog: 2-Fluorophenol	22	% Recov
Surrog: D14-Terphenyl	14	% Recov
PYRENE-D10 (SS)	0	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352371 Description: SS04-2 Source: Sediment (General)

Begin Date: 92/08/26 12:00

B/N/Acid Scan *** Continued *** Matrix Spike #1	Sediment Result	Units
Surrog: D5-Nitrobenzene	0	% Recov
Surrog: D5-Phenol	36	% Recov

B/N/Acid Scan Matrix Spike #2	Sediment Result	Units
Benzo(a)pyrene	0.2	% Recov
2,4-Dinitrophenol	0.002UJ	% Recov
Dibenzo(a,h)anthracene	0.0003U	% Recov
Benzo(a)anthracene	0.3	% Recov
4-Chloro-3-Methylphenol	30J	% Recov
Benzoic acid	0.002UJ	% Recov
Hexachloroethane	0.0001U	% Recov
Hexachlorocyclopentadi+	0.0007UJ	% Recov
Isophorone	31	% Recov
Acenaphthene	0.0001U	% Recov
Diethylphthalate	0.5	% Recov
Di-n-Butylphthalate	0.4	% Recov
Phenanthrene	0.1	% Recov
Butylbenzylphthalate	0.5J	% Recov
N-Nitrosodiphenylamine	0.9J	% Recov
Fluorene	0.0001U	% Recov
Carbazole	0.0007UJ	% Recov
Hexachlorobutadiene	0.0003U	% Recov
Pentachlorophenol	0.0007U	% Recov
2,4,6-Trichlorophenol	0.0003U	% Recov
2-Nitroaniline	36	% Recov
2-Nitrophenol	0.0003U	% Recov
Naphthalene, 1-Methyl-	0.0001U	% Recov
Naphthalene	0.0001U	% Recov
2-Methylnaphthalene	0.0001U	% Recov
2-Chloronaphthalene	0.0001U	% Recov
3,3'-Dichlorobenzidine	0.003U	% Recov
2-Methylphenol	26	% Recov
1,2-Dichlorobenzene	0.0001U	% Recov
o-Chlorophenol (2-Chlo+	23	% Recov
2,4,5-Trichlorophenol	0.0007U	% Recov
Nitrobenzene	0.0001U	% Recov
3-Nitroaniline	24J	% Recov
4-Nitroaniline	10J	% Recov
4-Nitrophenol	0.002U	% Recov
Benzyl Alcohol	35	% Recov
4-Bromophenyl-phenylet+	0.0001U	% Recov

B/N/Acid Scan *** Continued *** Matrix Spike #2	Sediment Result	Units
2,4-Dimethylphenol	14	% Recov
4-Methylphenol	22	% Recov
1,4-Dichlorobenzene	0.0001U	% Recov
4-Chloroaniline	0.002U	% Recov
Phenol	19	% Recov
bis(2-Chloroethyl)Ether	0.0001U	% Recov
bis(2-Chloroethoxy)Met+	0.0001U	% Recov
BIS(2-ETHYLHEXYL) PHTH+	0.4J	% Recov
Di-n-Octyl Phthalate	0.5J	% Recov
Hexachlorobenzene	0.0001U	% Recov
Anthracene	0.2	% Recov
1,2,4-Trichlorobenzene	0.0001U	% Recov
2,4-Dichlorophenol	8	% Recov
2,4-Dinitrotoluene	0.0003U	% Recov
Pyrene	0.2	% Recov
Dimethylphthalate	0.5	% Recov
Dibenzofuran	0.0001U	% Recov
Benzo(ghi)perylene	0.0001U	% Recov
Indeno(1,2,3-cd)pyrene	0.0001U	% Recov
Benzo(b)fluorenthene	0.2	% Recov
Fluoranthene	0.2	% Recov
Benzo(k)fluoranthene	0.4	% Recov
Acenaphthylene	0.1	% Recov
Chrysene	0.3	% Recov
Retene	0.0001U	% Recov
4,6-Dinitro-2-methylph+	0.002UJ	% Recov
1,3-Dichlorobenzene	0.0001U	% Recov
2,6-Dinitrotoluene	0.0003U	% Recov
N-Nitroso-di-n-Propyla+	30	% Recov
4-Chlorophenyl-phenyle+	0.0001U	% Recov
BIS(2OCHLOROISOPROPYL)+	0.0001U	% Recov
Surrog: 2-Fluorobiphen+	0	% Recov
Surrog: 2-Fluorophenol	19	% Recov
Surrog: D14-Terphenyl	2	% Recov
PYRENE-D10 (SS)	1	% Recov
Surrog: D5-Nitrobenzene	0	% Recov
Surrog: D5-Phenol	36	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
ETHANE, 1,1,2,2-TETRAC+	1300NJ*	ug/kg
.GAMMA.-SITOSTEROL	690NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	1900NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	1300NJ*	ug/kg
1-DOCOSANOL	420NJ*	ug/kg
2-HEXANONE, 6-(ACETYLO+	2500NJ*	ug/kg
UNKNOWN COMPOUND 1	390NJ*	ug/kg
UNKNOWN COMPOUND 2	210NJ*	ug/kg
UNKNOWN COMPOUND 3	130NJ*	ug/kg
2-HEXANONE, 6-BROMO-	990NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	390NJ*	ug/kg
DIFTALONE (USAN)	52NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	3900NJ*	ug/kg
HEXANE, 1-PROPOXY-	1300NJ*	ug/kg

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	5U	ug/kg
Chlordane (Tech)	45U	ug/kg
gamma-BHC (Lindane)	5U	ug/kg
Dieldrin	5U	ug/kg
Endrin	5U	ug/kg
Methoxychlor	5U	ug/kg
4,4'-DDD	5U	ug/kg
4,4'-DDE	5U	ug/kg
Heptachlor	5U	ug/kg
Aldrin	5U	ug/kg
alpha-BHC	5U	ug/kg
beta-BHC	5U	ug/kg
delta-BHC	5U	ug/kg
Endosulfan I	5U	ug/kg
Heptachlor Epoxide	5U	ug/kg
Endosulfan sulfate	5U	ug/kg
Endrin aldehyde	5U	ug/kg
Toxaphene	270U	ug/kg
PCB - 1260	150 *	ug/kg
PCB - 1254	45U	ug/kg
PCB - 1221	45U	ug/kg
PCB - 1232	45U	ug/kg
PCB - 1248	45U	ug/kg
PCB - 1016	45U	ug/kg
Endosulfan II	5U	ug/kg
PCB - 1242	45U	ug/kg

(Continued on next page)

Project: TEC-B75A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352371 Description: SS04-2 Source: Sediment (General)

Begin Date: 92/08/26 12:00

Pest/PCB - PP Scan *** Continued ***	Sediment Result	Units
Endrin Ketone	5U	ug/kg
Surrog: 2,4,6-Tribromo+	115	% Recov
DIBUTYLCHLORENDATE (SS)	74	% Recov
DECACHLOROBIPHENYL	70	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352372 Description: SS05-1 Source: Sediment (General)

Begin Date: 92/08/26 12:10

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	2970 *	mg/kg-dr
Magnesium	Mg-Sedmt	5890 *	mg/kg-dr
Sodium	Na-Sedmt	603B*	mg/kg-dr
Potassium	K -Sedmt	2810 *	mg/kg-dr
Arsenic	As-Sedmt	29.7 *	mg/kg-dr
Barium	Ba-Sedmt	98.4 *	mg/kg-dr
Beryllium	Be-Sedmt	0.560 *	mg/kg-dr
Cadmium	Cd-Sedmt	0.35P*	mg/kg-dr
Chromium	Cr-Sedmt	10.5 *	mg/kg-dr
Cobalt	Co-Sedmt	10.2 *	mg/kg-dr
Copper	Cu-Sedmt	34.4 *	mg/kg-dr
Lead	Pb-Sedmt	29.2 *	mg/kg-dr
Manganese	Mn-Sedmt	491 *	mg/kg-dr
Nickel	Ni-Sedmt	16.0 *	mg/kg-dr
Silver	Ag-Sedmt	4.40N*	mg/kg-dr
Vanadium	V -Sedmt	18.2 *	mg/kg-dr
Zinc	Zn-Sedmt	50.0 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	12700 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	24000 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	8UJ	ug/kg
Chloroform	3UJ	ug/kg
Benzene	3U	ug/kg
1,1,1-Trichloroethane	3UJ	ug/kg
Bromomethane	3U	ug/kg
Chloromethane	3UJ	ug/kg
Dibromomethene	3U	ug/kg
Bromochloromethane	3U	ug/kg
Chloroethane	3UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Vinyl Chloride	3UJ	ug/kg
Methylene Chloride	15U	ug/kg
Carbon Disulfide	15U	ug/kg
Bromoform	3U	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethane	3U	ug/kg
1,1-Dichloroethene	3U	ug/kg
Trichlorofluoromethane	0.4J*	ug/kg
Methane, Dichlorodiflu+	16J*	ug/kg
1,2-Dichloropropane	3U	ug/kg
2-Butanone	3UJ	ug/kg
1,1,2-Trichloroethene	3U	ug/kg
Ethane, trichloro-	3U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3U	ug/kg
1,2,3-Trichlorobenzene	3U	ug/kg
Hexachlorobutadiene	3U	ug/kg
Naphthalene	3U	ug/kg
Benzene, 1,2-Dimethyl	3U	ug/kg
2-Chlorotoluene	3U	ug/kg
1,2-Dichlorobenzene	3U	ug/kg
1,2,4-Trimethylbenzene	3U	ug/kg
1,2-Dibromo-3-chloropr+	15U	ug/kg
1,2,3-Trichloropropane	3U	ug/kg
Tert-Butylbenzene	3U	ug/kg
Isopropylbenzene (Cume+	3U	ug/kg
p-Isopropyltoluene	3U	ug/kg
Ethylbenzene	3U	ug/kg
BENZENE, ETHENYL-(STYR+	3U	ug/kg
BENZENE, PROPYL-	3U	ug/kg
Butylbenzene	3U	ug/kg
4-Chlorotoluene	3U	ug/kg
1,4-Dichlorobenzene	3U	ug/kg
1,2-Dibromoethane (EDB)	3U	ug/kg
1,2-Dichloroethane	3UJ	ug/kg
4-Methyl-2-Pentanone(M+	3U	ug/kg
1,3,5-Trimethylbenzene	3U	ug/kg
Bromobenzene	3U	ug/kg
Toluene	3U	ug/kg
Chlorobenzene	3U	ug/kg
1,2,4-Trichlorobenzene	3U	ug/kg
Dibromochloromethane	3U	ug/kg
Tetrachloroethene	3U	ug/kg
Sec-Butylbenzene	3U	ug/kg
1,3-Dichloropropane	3U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Cis-1,2-Dichloroethene	3U	ug/kg
trans-1,2-Dichloroethe+	3U	ug/kg
BENZENE, 1-BROMO-4-FLU+	87 *	ug/kg
1,3-Dichlorobenzene	3U	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3U	ug/kg
2,2-Dichloropropane	3UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	3U	ug/kg
cis-1,3-Dichloropropene	3U	ug/kg
trans-1,3-Dichloroprop+	3U	ug/kg
FLUOROBENZENE	101	% Recov
d8-Toluene	103	% Recov
d4-1,2-Dichlorobenzene+	101	% Recov
1,2-Dichloroethane-d4 +	113	% Recov

Tent Ident - VOA Sca	Sediment Result	Units
UNKNOWN HYDROCARBONS (+	12NJ*	ug/kg

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	100U	ug/kg
2,4-Dinitrophenol	1400UJ	ug/kg
Dibenzo(a,h)anthracene	260U	ug/kg
Benzo(a)anthracene	100U	ug/kg
4-Chloro-3-Methylphenol	540UJ	ug/kg
Benzoic acid	1400UJ	ug/kg
Hexachloroethane	100U	ug/kg
Hexachlorocyclopentadi+	540UJ	ug/kg
Isophorone	340J*	ug/kg
Acenaphthene	100U	ug/kg
Diethylphthalate	100U	ug/kg
Di-n-Butylphthalate	360U	ug/kg
Phenanthrene	120 *	ug/kg
Butylbenzylphthalate	260U	ug/kg
N-Nitrosodiphenylamine	1400UJ	ug/kg
Fluorene	100U	ug/kg
Carbazole	540UJ	ug/kg
Hexachlorobutadiene	260U	ug/kg
Pentachlorophenol	540UJ	ug/kg

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU2Z

Laboratory: EPA, Manchester

Sample No: 92 352372 Description: SS05-1 Source: Sediment (General)

Begin Date: 92/08/26 12:10

B/N/Acid Scan *** Continued ***	Sediment Result	Units
2,4,6-Trichlorophenol	260UJ	ug/kg
2-Nitroaniline	260U	ug/kg
2-Nitrophenol	260UJ	ug/kg
Naphthalene, 1-Methyl-	40J*	ug/kg
Naphthalene	110 *	ug/kg
2-Methylnaphthalene	48J*	ug/kg
2-Chloronaphthalene	100U	ug/kg
3,3'-Dichlorobenzidine	2600U	ug/kg
2-Methylphenol	100UJ	ug/kg
1,2-Dichlorobenzene	100U	ug/kg
o-Chlorophenol (2-Chlo+	100UJ	ug/kg
2,4,5-Trichlorophenol	530UJ	ug/kg
Nitrobenzene	100U	ug/kg
3-Nitroaniline	1400UJ	ug/kg
4-Nitroaniline	1400U	ug/kg
4-Nitrophenol	1400UJ	ug/kg
Benzyl Alcohol	54DU	ug/kg
4-Bromophenyl-phenylet+	100U	ug/kg
2,4-Dimethylphenol	100UJ	ug/kg
4-Methylphenol	100UJ	ug/kg
1,4-Dichlorobenzene	100U	ug/kg
4-Chloroaniline	1400U	ug/kg
Phenol	100UJ	ug/kg
bis(2-Chloroethyl)Ether	100U	ug/kg
bis(2-Chloroethoxy)Met+	100U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	150U	ug/kg
Di-n-Octyl Phthalate	100U	ug/kg
Hexachlorobenzene	100UJ	ug/kg
Anthracene	13J*	ug/kg
1,2,4-Trichlorobenzene	100U	ug/kg
2,4-Dichlorophenol	100UJ	ug/kg
2,4-Dinitrotoluene	260U	ug/kg
Pyrene	25J*	ug/kg
Dimethylphthalate	100U	ug/kg
Dibenzofuran	50J*	ug/kg
Benzo(ghi)perylene	100U	ug/kg
Indeno(1,2,3-cd)pyrene	100U	ug/kg
Benzo(b)fluoranthene	39J*	ug/kg
Fluoranthene	67J*	ug/kg
Benzo(k)fluoranthene	100UJ	ug/kg
Acenaphthylene	100U	ug/kg
Chrysene	40JN*	ug/kg
Retene	78JN*	ug/kg
4,6-Dinitro-2-methylph+	1400UJ	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
1,3-Dichlorobenzene	100U	ug/kg
2,6-Dinitrotoluene	260U	ug/kg
N-Nitroso-di-n-Propyla+	100UJ	ug/kg
4-Chlorophenyl-phenyle+	100U	ug/kg
BIS(2OCHLOROISOPROPYL)+	100UJ	ug/kg
Surrog: 2-Fluorobiphen+	77	% Recov
Surrog: 2-Fluorophenol	17	% Recov
Surrog: D14-Terphenyl	95	% Recov
PYRENE-D10 (SS)	39	% Recov
Surrog: D5-Nitrobenzene	62	% Recov
Surrog: D5-Phenol	19	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
ETHANE, 1,1,2,2-TETRAC+	1200NJ*	ug/kg
CARYOPHYLLENE (VAN)	490NJ*	ug/kg
2,5-HEXANEDIONE	380NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	7600NJ*	ug/kg
9-OCTADECENOIC ACID, 1+	57NJ*	ug/kg
9H-FLUOREN-9-ONE	66NJ*	ug/kg
1-HEXACOSANOL	960NJ*	ug/kg
NAPHTHALENE, 2,3-DIMET+	76NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	900NJ*	ug/kg
1-DOCOSANOL	550NJ*	ug/kg
2-CYCLOHEXEN-1-ONE, 3,+	370NJ*	ug/kg
PHENANTHRENE, 2-METHYL-	28NJ*	ug/kg
2-HEXANONE, 6-(ACETYLO+	1400NJ*	ug/kg
HEXANEDIOIC ACID, MONO+	110NJ*	ug/kg
UNKNOWN HYDROCARBON 1	200NJ*	ug/kg
UNKNOWN HYDROCARBON 2	220NJ*	ug/kg
UNKNOWN HYDROCARBON 3	280NJ*	ug/kg
UNKNOWN HYDROCARBON 4	300NJ*	ug/kg
UNKNOWN HYDROCARBON 5	600NJ*	ug/kg
UNKNOWN HYDROCARBON 6	89NJ*	ug/kg
UNKNOWN COMPOUND 1	480NJ*	ug/kg
UNKNOWN COMPOUND 2	380NJ*	ug/kg
UNKNOWN COMPOUND 3	140NJ*	ug/kg
UNKNOWN COMPOUND 4	4100NJ*	ug/kg
UNKNOWN COMPOUND 5	200NJ*	ug/kg
UNKNOWN COMPOUND 6	79NJ*	ug/kg
UNKNOWN COMPOUND 7	130NJ*	ug/kg
UNKNOWN COMPOUND 8	23NJ*	ug/kg

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
UNKNOWN COMPOUND 9	77NJ*	ug/kg
UNKNOWN COMPOUND 10	72NJ*	ug/kg
UNKNOWN COMPOUND 11	200NJ*	ug/kg
UNKNOWN COMPOUND 12	170NJ*	ug/kg
UNKNOWN COMPOUND 13	370NJ*	ug/kg
UNKNOWN COMPOUND 14	65NJ*	ug/kg
UNKNOWN COMPOUND-15	140NJ*	ug/kg
UNKNOWN COMPOUND-16	540NJ*	ug/kg
UNKNOWN COMPOUND-17	440NJ*	ug/kg
UNKNOWN COMPOUND-18	1400NJ*	ug/kg
2-HEXANONE, 6-BROMO-	1200NJ*	ug/kg
UNDECANE 5-CYCLOHEXYL-+	380NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	570NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	1700NJ*	ug/kg
1,E-4,Z-8-DODECATRIENE	130NJ*	ug/kg

Past/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	4U	ug/kg
Chlordane (Tech)	43U	ug/kg
gamma-BHC (Lindane)	4U	ug/kg
Dieldrin	4U	ug/kg
Endrin	4U	ug/kg
Methoxychlor	4U	ug/kg
4,4'-DDD	4U	ug/kg
4,4'-DDE	4U	ug/kg
Heptachlor	4U	ug/kg
Aldrin	4U	ug/kg
alpha-BHC	4U	ug/kg
beta-BHC	4U	ug/kg
delta-BHC	4U	ug/kg
Endosulfan I	4U	ug/kg
Heptachlor Epoxide	4U	ug/kg
Endosulfan sulfate	4U	ug/kg
Endrin aldehyde	4U	ug/kg
Toxaphene	260U	ug/kg
PCB - 1260	43U	ug/kg
PCB - 1254	43U	ug/kg
PCB - 1221	43U	ug/kg
PCB - 1232	43U	ug/kg
PCB - 1248	43U	ug/kg
PCB - 1016	43U	ug/kg

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: HZR Account: FA1OPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352372 Description: SS05-1 Source: Sediment (General)

Begin Date: 92/08/26 12:10

Pest/PCB - PP Scan *** Continued ***	Sediment Result	Units
Endosulfan II	4U	ug/kg
PCB - 1242	43U	ug/kg
Endrin Ketone	4U	ug/kg
Surrog: 2,4,6-Tribromo+	125	% Recov
DIBUTYLCHLORENDATE (SS)	85	% Recov
DECACHLOROBIPHENYL	90	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352373 Description: SS05-2 Source: Sediment (General)

Begin Date: 92/08/26 12:10

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.037N*	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	5400 *	mg/kg-dr
Mgneium	Mg-Sedmt	3590 *	mg/kg-dr
Sodium	Na-Sedmt	657B*	mg/kg-dr
Potssium	K -Sedmt	1150 *	mg/kg-dr
Arsenic	As-Sedmt	46.5 *	mg/kg-dr
Barium	Ba-Sedmt	247 *	mg/kg-dr
Berylium	Be-Sedmt	0.859 *	mg/kg-dr
Cadmium	Cd-Sedmt	0.58P*	mg/kg-dr
Chromium	Cr-Sedmt	7.94 *	mg/kg-dr
Cobalt	Co-Sedmt	8.17 *	mg/kg-dr
Copper	Cu-Sedmt	123 *	mg/kg-dr
Lead	Pb-Sedmt	225 *	mg/kg-dr
Mangnese	Mn-Sedmt	401 *	mg/kg-dr
Nickel	Ni-Sedmt	23.3 *	mg/kg-dr
Silver	Ag-Sedmt	3.17N*	mg/kg-dr
Vanadium	V -Sedmt	33.6 *	mg/kg-dr
Zinc	Zn-Sedmt	78.4 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	7390 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	17800 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	27U	ug/kg
Chloroform	3UJ	ug/kg
Benzene	3U	ug/kg
1,1,1-Trichloroethene	3UJ	ug/kg
Bromomethane	3U	ug/kg
Chloromethane	3UJ	ug/kg
Dibromomethane	3U	ug/kg
Bromochloromethane	3UJ	ug/kg
Chloroethane	3U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Vinyl Chloride	3U	ug/kg
Methylene Chloride	3U	ug/kg
Carbon Disulfide	14UJ	ug/kg
Bromoform	3UJ	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethane	3U	ug/kg
1,1-Dichloroethene	3UJ	ug/kg
Trichlorofluoromethane	0.7J*	ug/kg
Methane, Dichlorodiflu+	14J*	ug/kg
1,2-Dichloropropane	3U	ug/kg
2-Butanone	3UJ	ug/kg
1,1,2-Trichloroethane	3U	ug/kg
Ethene, trichloro-	3U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3U	ug/kg
1,2,3-Trichlorobenzene	3UJ	ug/kg
Hexachlorobutadiene	3UJ	ug/kg
Naphthalene	3UJ	ug/kg
Benzene, 1,2-Dimethyl	3UJ	ug/kg
2-Chlorotoluene	3UJ	ug/kg
1,2-Dichlorobenzene	3UJ	ug/kg
1,2,4-Trimethylbenzene	3UJ	ug/kg
1,2-Dibromo-3-chloropr+	14UJ	ug/kg
1,2,3-Trichloropropane	3UJ	ug/kg
Tert-Butylbenzene	3UJ	ug/kg
Isopropylbenzene (Cume+	3UJ	ug/kg
p-Isopropyltoluene	3UJ	ug/kg
Ethylbenzene	3U	ug/kg
BENZENE, ETHENYL-(STYR+	3U	ug/kg
BENZENE, PROPYL-	3UJ	ug/kg
Butylbenzene	3UJ	ug/kg
4-Chlorotoluene	3UJ	ug/kg
1,4-Dichlorobenzene	3UJ	ug/kg
1,2-Dibromoethane (EDB)	3U	ug/kg
1,2-Dichloroethane	3UJ	ug/kg
4-Methyl-2-Pentanone(M+	3UJ	ug/kg
1,3,5-Trimethylbenzene	3U	ug/kg
Bromobenzene	3UJ	ug/kg
Toluene	3U	ug/kg
Chlorobenzene	3U	ug/kg
1,2,4-Trichlorobenzene	3UJ	ug/kg
Dibromochloromethane	3U	ug/kg
Tetrachloroethene	3U	ug/kg
Sec-Butylbenzene	3UJ	ug/kg
1,3-Dichloropropane	3U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Cis-1,2-Dichloroethene	3U	ug/kg
trans-1,2-Dichloroethe+	3U	ug/kg
1,3-Dichlorobenzene	3UJ	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3UJ	ug/kg
2,2-Dichloropropane	3UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	3U	ug/kg
cis-1,3-Dichloropropene	3U	ug/kg
trans-1,3-Dichloroprop+	3U	ug/kg
p-Bromofluorobenzene	67	% Recov
FLUOROBENZENE	104	% Recov
d8-Toluene	128	% Recov
d4-1,2-Dichlorobenzene+	102	% Recov
1,2-Dichloroethane-d4 +	121	% Recov

VOA - PP Scan (GCMS) Matrix Spike #1	Sediment Result	Units
Carbon Tetrachloride	110J	% Recov
Acetone	NAF	% Recov
Chloroform	115J	% Recov
Benzene	115J	% Recov
1,1,1-Trichloroethane	132J	% Recov
Bromomethane	50J	% Recov
Chloromethane	22	% Recov
Dibromomethane	144J	% Recov
Bromochloromethane	160J	% Recov
Chloroethane	45J	% Recov
Vinyl Chloride	28J	% Recov
Methylene Chloride	86J	% Recov
Carbon Disulfide	50J	% Recov
Bromoform	230J	% Recov
Bromodichloromethane	124J	% Recov
1,1-Dichloroethane	94J	% Recov
1,1-Dichloroethene	68J	% Recov
Trichlorofluoromethane	47J	% Recov
Methane, Dichlorodiflu+	NAF	% Recov
1,2-Dichloropropane	131J	% Recov
2-Butanone	290J	% Recov
1,1,2-Trichloroethane	140J	% Recov
Ethene, trichloro-	112J	% Recov
ETHANE, 1,1,2,2-TETRAC+	122J	% Recov
1,2,3-Trichlorobenzene	62J	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352373 Description: SS05-2 Source: Sediment (General)

Begin Date: 92/08/26 12:10

VOA - PP Scan (GCMS) *** Continued *** Matrix Spike #1	Sediment Result	Units
Hexachlorobutadiene	49J	% Recov
Naphthalene	79J	% Recov
2-Chlorotoluene	122J	% Recov
1,2-Dichlorobenzene	94J	% Recov
1,2,4-Trimethylbenzene	101J	% Recov
1,2-Dibromo-3-chloropr+	230J	% Recov
1,2,3-Trichloropropane	280J	% Recov
Tert-Butylbenzene	110J	% Recov
Isopropylbenzene (Cume+	138J	% Recov
p-Isopropyltoluene	88J	% Recov
Ethylbenzene	80J	% Recov
BENZENE, ETHENYL-(STYR+	68J	% Recov
BENZENE, PROPYL-	122J	% Recov
Butylbenzene	76J	% Recov
4-Chlorotoluene	112J	% Recov
1,4-Dichlorobenzene	98J	% Recov
1,2-Dibromoethene (EDB)	130J	% Recov
1,2-Dichloroethane	113J	% Recov
4-Methyl-2-Pentanone(M+	210J	% Recov
1,3,5-Trimethylbenzene	109J	% Recov
Bromobenzene	144J	% Recov
Toluene	99J	% Recov
Chlorobenzene	90J	% Recov
1,2,4-Trichlorobenzene	57J	% Recov
Dibromochloromethane	119J	% Recov
Tetrachloroethene	98J	% Recov
Sec-Butylbenzene	94J	% Recov
1,3-Dichloropropane	135J	% Recov
Cis-1,2-Dichloroethene	98J	% Recov
trans-1,2-Dichloroethe+	80J	% Recov
1,3-Dichlorobenzene	97J	% Recov
1,1-Dichloropropene	106J	% Recov
2-Hexanone	230J	% Recov
2,2-Dichloropropane	100J	% Recov
Ethane, 1,1,1,2-Tetrac+	108J	% Recov
Total Xylenes	79J	% Recov
D4-1,2-Dichlorobenzene	99	% Recov
d8-Toluene	118	% Recov
cis-1,3-Dichloropropene	105J	% Recov
trans-1,3-Dichloroprop+	107J	% Recov
p-Bromofluorobenzene	72	% Recov
FLUOROBENZENE	101	% Recov
1,2-Dichloroethane-d4 +	126	% Recov

VOA - PP Scan (GCMS) Matrix Spike #2	Sediment Result	Units
Carbon Tetrachloride	120J	% Recov
Acetone	NAF	% Recov
Chloroform	116J	% Recov
Benzene	119J	% Recov
1,1,1-Trichloroethane	136J	% Recov
Bromomethane	108J	% Recov
Chloromethane	107J	% Recov
Dibromomethane	145J	% Recov
Bromochloromethane	148J	% Recov
Chloroethane	108J	% Recov
Vinyl Chloride	99J	% Recov
Methylene Chloride	102J	% Recov
Carbon Disulfide	92J	% Recov
Bromoform	240J	% Recov
Bromodichloromethane	128J	% Recov
1,1-Dichloroethane	122J	% Recov
1,1-Dichloroethene	100J	% Recov
Trichlorofluoromethane	79J	% Recov
Methane, Dichlorodiflu+	NAF	% Recov
1,2-Dichloropropane	128J	% Recov
2-Butanone	260J	% Recov
1,1,2-Trichloroethane	147J	% Recov
Ethene, trichloro-	112J	% Recov
ETHANE, 1,1,2,2-TETRAC+	122J	% Recov
1,2,3-Trichlorobenzene	40J	% Recov
Hexachlorobutadiene	40J	% Recov
Naphthalene	94J	% Recov
2-Chlorotoluene	132J	% Recov
1,2-Dichlorobenzene	94J	% Recov
1,2,4-Trimethylbenzene	110J	% Recov
1,2-Dibromo-3-chloropr+	290J	% Recov
1,2,3-Trichloropropane	290J	% Recov
Tert-Butylbenzene	114J	% Recov
Isopropylbenzene (Cume+	144J	% Recov
p-Isopropyltoluene	86J	% Recov
Ethylbenzene	80J	% Recov
BENZENE, ETHENYL-(STYR+	66J	% Recov
BENZENE, PROPYL-	124J	% Recov
Butylbenzene	81J	% Recov
4-Chlorotoluene	125J	% Recov
1,4-Dichlorobenzene	97J	% Recov
1,2-Dibromoethane (EDB)	126J	% Recov
1,2-Dichloroethane	118J	% Recov
4-Methyl-2-Pentanone(M+	240J	% Recov
1,3,5-Trimethylbenzene	109J	% Recov

VOA - PP Scan (GCMS) *** Continued *** Matrix Spike #2	Sediment Result	Units
Bromobenzene	142J	% Recov
Toluene	104J	% Recov
Chlorobenzene	86J	% Recov
1,2,4-Trichlorobenzene	42J	% Recov
Dibromochloromethane	126J	% Recov
Tetrachloroethene	97J	% Recov
Sec-Butylbenzene	100J	% Recov
1,3-Dichloropropane	132J	% Recov
Cis-1,2-Dichloroethene	116J	% Recov
trans-1,2-Dichloroethe+	100J	% Recov
1,3-Dichlorobenzene	94J	% Recov
1,1-Dichloropropene	108J	% Recov
2-Hexanone	230J	% Recov
2,2-Dichloropropane	119J	% Recov
Ethane, 1,1,1,2-Tetrac+	106J	% Recov
Total Xylenes	79J	% Recov
d8-Toluene	120	% Recov
cis-1,3-Dichloropropene	106J	% Recov
trans-1,3-Dichloroprop+	111J	% Recov
p-Bromofluorobenzene	71	% Recov
FLUOROBENZENE	101	% Recov
d4-1,2-Dichlorobenzene+	100	% Recov
1,2-Dichloroethane-d4 +	127	% Recov

Tent Idant - VOA Sca	Sediment Result	Units
UNKNOWN HYDROCARBONS	2.7NJ*	ug/kg

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	650 *	ug/kg
2,4-Dinitrophenol	5700UJ	ug/kg
Dibenzo(a,h)anthracene	170NJ*	ug/kg
Benzo(a)anthracene	770 *	ug/kg
4-Chloro-3-Methylphenol	2300U	ug/kg
Benzoic acid	5700UJ	ug/kg
Hexachloroethane	440U	ug/kg
Hexachlorocyclopentadi+	2300UJ	ug/kg
Isophorone	50J*	ug/kg
Acenaphthene	440U	ug/kg

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: M2R Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352373 Description: SS05-2 Source: Sediment (General)

Begin Date: 92/08/26 12:10

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Diethylphthalate	440U	ug/kg
Di-n-Butylphthalate	440U	ug/kg
Phenanthrene	6800 *	ug/kg
Butylbenzylphthalate	1100U	ug/kg
N-Nitrosodiphenylamine	92NJ*	ug/kg
Fluorene	68NJ*	ug/kg
Carbazole	350J*	ug/kg
Hexachlorobutadiene	1100U	ug/kg
Pentachlorophenol	2300U	ug/kg
2,4,6-Trichlorophenol	1100U	ug/kg
2-Nitroaniline	1100U	ug/kg
2-Nitrophenol	1100U	ug/kg
Naphthalene, 1-Methyl-	1900 *	ug/kg
Naphthalene	5700 *	ug/kg
2-Methylnaphthalene	2500 *	ug/kg
2-Chloronaphthalene	440U	ug/kg
3,3'-Dichlorobenzidine	11000U	ug/kg
2-Methylphenol	440U	ug/kg
1,2-Dichlorobenzene	440U	ug/kg
o-Chlorophenol (2-Chlo+	440U	ug/kg
2,4,5-Trichlorophenol	2200U	ug/kg
Nitrobenzene	440UJ	ug/kg
3-Nitroaniline	5700UJ	ug/kg
4-Nitroaniline	5700UJ	ug/kg
4-Nitrophenol	5700UJ	ug/kg
Benzyl Alcohol	2300U	ug/kg
4-Bromophenyl-phenylet+	440U	ug/kg
2,4-Dimethylphenol	440U	ug/kg
4-Methylphenol	440U	ug/kg
1,4-Dichlorobenzene	440U	ug/kg
4-Chloroaniline	5700U	ug/kg
Phenol	440U	ug/kg
bis(2-Chloroethyl)Ether	440U	ug/kg
bis(2-Chloroethoxy)Met+	440U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	440U	ug/kg
Di-n-Octyl Phthalate	440U	ug/kg
Hexachlorobenzene	440U	ug/kg
Anthracene	460J*	ug/kg
1,2,4-Trichlorobenzene	440U	ug/kg
2,4-Dichlorophenol	440U	ug/kg
2,4-Dinitrotoluene	1100U	ug/kg
Pyrene	3400 *	ug/kg
Dimethylphthalate	440U	ug/kg
Dibenzofuran	3400U	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Benzo(ghi)perylene	910 *	ug/kg
Indeno(1,2,3-cd)pyrene	930 *	ug/kg
Benzo(b)fluoranthene	2300 *	ug/kg
Fluoranthene	3400 *	ug/kg
Benzo(k)fluoranthene	580 *	ug/kg
Acenaphthylene	440U	ug/kg
Chrysene	1800 *	ug/kg
Retene	1600 *	ug/kg
4,6-Dinitro-2-methylph+	5700UJ	ug/kg
1,3-Dichlorobenzene	440U	ug/kg
2,6-Dinitrotoluene	1100U	ug/kg
N-Nitroso-di-n-Propyla+	440UJ	ug/kg
4-Chlorophenyl-phenyle+	440U	ug/kg
BIS(2OCHLOROISOPROPYL)+	440UJ	ug/kg
Surrog: 2-Fluorobiphen+	107	% Recov
Surrog: 2-Fluorophenol	38	% Recov
Surrog: D14-Terphenyl	114	% Recov
PYRENE-D10 (SS)	119	% Recov
Surrog: D5-Nitrobenzene	55	% Recov
Surrog: D5-Phenol	40	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
9,10-ANTHRACENEDIONE	1300NJ*	ug/kg
CARYOPHYLLENE (VAN)	970NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	130000NJ*	ug/kg
BENZO[B]NAPHTHO[2,3-D]+	1300NJ*	ug/kg
NAPHTHALENE, 1,6-DIMET+	1000NJ*	ug/kg
9H-FLUOREN-9-ONE	3600NJ*	ug/kg
NAPHTHALENE, 1-METHYL-+	860NJ*	ug/kg
NAPHTHALENE, 1,8-DIMET+	1000NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	13000NJ*	ug/kg
ANTHRACENE, 1-METHYL-	540NJ*	ug/kg
ANTHRACENE, 2-METHYL-	580NJ*	ug/kg
HEXANOIC ACID, ANHYDRI+	430NJ*	ug/kg
2-HEXANONE, 6-(ACETYLO+	12000NJ*	ug/kg
CYCLOPENTA(DEF)PHENANT+	1150NJ*	ug/kg
UNKNOWN HYDROCARBON 1	1900NJ*	ug/kg
UNKNOWN HYDROCARBON 2	3400NJ*	ug/kg
UNKNOWN HYDROCARBON 3	5300NJ*	ug/kg
UNKNOWN COMPOUND 1	2200NJ*	ug/kg
UNKNOWN COMPOUND 2	6600NJ*	ug/kg

Tent Ident - B/N/Aci *** Continued ***	Sediment Result	Units
UNKNOWN COMPOUND 3	1400NJ*	ug/kg
UNKNOWN COMPOUND 4	1100NJ*	ug/kg
UNKNOWN COMPOUND 5	1100NJ*	ug/kg
UNKNOWN COMPOUND 6	28000NJ*	ug/kg
UNKNOWN COMPOUND 7	900NJ*	ug/kg
2-HEXANONE, 6-BROMO-	5000NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	7300NJ*	ug/kg
8,9-DIHYDROCYCLOPENTA[+	710NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	31000NJ*	ug/kg
2-PHENYLNAPHTHALENE	750NJ*	ug/kg

Peat/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	50U	ug/kg
Chlordane (Tech)	45U	ug/kg
gamma-BHC (Lindane)	50U	ug/kg
Dieldrin	50U	ug/kg
Endrin	50U	ug/kg
Methoxychlor	50U	ug/kg
4,4'-DDD	50U	ug/kg
4,4'-DDE	50U	ug/kg
Heptachlor	50U	ug/kg
Aldrin	50U	ug/kg
alpha-BHC	50U	ug/kg
beta-BHC	50U	ug/kg
delta-BHC	50U	ug/kg
Endosulfan I	50U	ug/kg
Heptachlor Epoxide	50U	ug/kg
Endosulfan sulfate	50U	ug/kg
Endrin aldehyde	50U	ug/kg
Toxaphene	270U	ug/kg
PCB - 1260	370 *	ug/kg
PCB - 1254	45U	ug/kg
PCB - 1221	45U	ug/kg
PCB - 1232	45U	ug/kg
PCB - 1248	45U	ug/kg
PCB - 1016	45U	ug/kg
Endosulfan II	50U	ug/kg
PCB - 1242	45U	ug/kg
Endrin Ketone	50U	ug/kg
Surrog: 2,4,6-Tribromo+	156	% Recov
DIBUTYLCHLORENDATE (SS)	60	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352373 Description: SS05-2 Source: Sediment (General)

Begin Date: 92/08/26 12:10

Pest/PCB - PP Scan *** Continued ***	Sediment Result	Units
DECACHLOROBIPHENYL	111	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352374 Description: SS06-1 Source: Sediment (General)

Begin Date: 92/08/26 12:30

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20UNW	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	10800E*	mg/kg-dr
Magnesium	Mg-Sedmt	11000E*	mg/kg-dr
Sodium	Na-Sedmt	468B*	mg/kg-dr
Potassium	K -Sedmt	4800 *	mg/kg-dr
Arsenic	As-Sedmt	39.6 *	mg/kg-dr
Barium	Ba-Sedmt	83.3 *	mg/kg-dr
Beryllium	Be-Sedmt	0.795 *	mg/kg-dr
Cadmium	Cd-Sedmt	0.58P*	mg/kg-dr
Chromium	Cr-Sedmt	15.7 *	mg/kg-dr
Cobalt	Co-Sedmt	9.99 *	mg/kg-dr
Copper	Cu-Sedmt	38.3 *	mg/kg-dr
Lead	Pb-Sedmt	61.6 *	mg/kg-dr
Manganese	Mn-Sedmt	575E*	mg/kg-dr
Nickel	Ni-Sedmt	16.3 *	mg/kg-dr
Silver	Ag-Sedmt	3.39 *	mg/kg-dr
Vanadium	V -Sedmt	17.8E*	mg/kg-dr
Zinc	Zn-Sedmt	75.4E*	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	13000 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	18200E*	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	14U	ug/kg
Chloroform	3UJ	ug/kg
Benzene	3U	ug/kg
1,1,1-Trichloroethane	3UJ	ug/kg
Bromomethane	3U	ug/kg
Chloromethane	3UJ	ug/kg
Dibromomethane	3U	ug/kg
Bromochloromethane	3U	ug/kg
Chloroethane	3UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Vinyl Chloride	3UJ	ug/kg
Methylene Chloride	15U	ug/kg
Carbon Disulfide	15U	ug/kg
Bromoform	3UJ	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethane	3U	ug/kg
1,1-Dichloroethene	3U	ug/kg
Trichlorofluoromethane	3UJ	ug/kg
Methane, Dichlorodiflu+	0.4J*	ug/kg
1,2-Dichloropropane	3U	ug/kg
2-Butanone	3U	ug/kg
1,1,2-Trichloroethane	3U	ug/kg
Ethane, trichloro-	3U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3U	ug/kg
1,2,3-Trichlorobenzene	3UJ	ug/kg
Hexachlorobutadiene	3UJ	ug/kg
Naphthalene	3UJ	ug/kg
2-Chlorotoluene	3UJ	ug/kg
1,2-Dichlorobenzene	3UJ	ug/kg
1,2,4-Trimethylbenzene	3UJ	ug/kg
1,2-Dibromo-3-chloropr+	15UJ	ug/kg
1,2,3-Trichloropropane	3UJ	ug/kg
Tert-Butylbenzene	3UJ	ug/kg
Isopropylbenzene (Cume+	3UJ	ug/kg
p-Isopropyltoluene	3UJ	ug/kg
Ethylbenzene	3U	ug/kg
BENZENE, ETHENYL-(STYR+	3U	ug/kg
BENZENE, PROPYL-	3UJ	ug/kg
Butylbenzene	3UJ	ug/kg
4-Chlorotoluene	3UJ	ug/kg
1,4-Dichlorobenzene	3UJ	ug/kg
1,2-Dibromoethane (EDB)	3U	ug/kg
1,2-Dichloroethane	3UJ	ug/kg
4-Methyl-2-Pentanone(M+	3U	ug/kg
1,3,5-Trimethylbenzene	3UJ	ug/kg
Bromobenzene	3UJ	ug/kg
Toluene	3U	ug/kg
Chlorobenzene	3U	ug/kg
1,2,4-Trichlorobenzene	3UJ	ug/kg
Dibromochloromethane	3U	ug/kg
Tetrachloroethene	3U	ug/kg
Sec-Butylbenzene	3UJ	ug/kg
1,3-Dichloropropane	3U	ug/kg
Cis-1,2-Dichloroethene	3U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
trans-1,2-Dichloroethe+	3U	ug/kg
1,3-Dichlorobenzene	3UJ	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3U	ug/kg
2,2-Dichloropropane	3UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	3U	ug/kg
Total Xylenes	3UJ	ug/kg
cis-1,3-Dichloropropene	3U	ug/kg
trans-1,3-Dichloroprop+	3U	ug/kg
p-Bromofluorobenzene	73	% Recov
FLUOROBENZENE	102	% Recov
d8-Toluene	114	% Recov
d4-1,2-Dichlorobenzene+	97	% Recov
1,2-Dichloroethane-d4 +	117	% Recov

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	120UJ	ug/kg
2,4-Dinitrophenol	1600UJ	ug/kg
Dibenzo(a,h)anthracene	310UJ	ug/kg
Benzo(a)anthracene	120U	ug/kg
4-Chloro-3-Methylphenol	630UJ	ug/kg
Benzoic acid	1600UJ	ug/kg
Hexachloroethane	120U	ug/kg
Hexachlorocyclopentadi+	630UJ	ug/kg
Isophorone	83J*	ug/kg
Acenaphthene	120U	ug/kg
Diethylphthalate	120U	ug/kg
Di-n-Butylphthalate	120U	ug/kg
Phenanthrene	18J*	ug/kg
Butylbenzylphthalate	310U	ug/kg
N-Nitrosodiphenylamine	1600UJ	ug/kg
Fluorene	120U	ug/kg
Carbazole	630UJ	ug/kg
Hexachlorobutadiene	310U	ug/kg
Pentachlorophenol	630UJ	ug/kg
2,4,6-Trichlorophenol	310UJ	ug/kg
2-Nitroaniline	310U	ug/kg
2-Nitrophenol	310U	ug/kg
Naphthalene, 1-Methyl-	14NJ*	ug/kg
Naphthalene	18J*	ug/kg
2-Methylnaphthalene	15J*	ug/kg

(Continued on next page)

Project: TEC*575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352374 Description: SS06-1 Source: Sediment (General)

Begin Date: 92/08/26 12:30

B/N/Acid Scan *** Continued ***	Sediment Result	Units
2-Chloronaphthalene	120U	ug/kg
3,3'-Dichlorobenzidine	3100UJ	ug/kg
2-Methylphenol	120UJ	ug/kg
1,2-Dichlorobenzene	120U	ug/kg
o-Chlorophenol (2-Chlo+	120UJ	ug/kg
2,4,5-Trichlorophenol	620UJ	ug/kg
Nitrobenzene	120UJ	ug/kg
3-Nitroaniline	1600UJ	ug/kg
4-Nitroaniline	1600U	ug/kg
4-Nitrophenol	1600UJ	ug/kg
Benzyl Alcohol	REJ	ug/kg
4-Bromophenyl-phenylet+	120U	ug/kg
2,4-Dimethylphenol	120U	ug/kg
4-Methylphenol	120UJ	ug/kg
1,4-Dichlorobenzene	120U	ug/kg
4-Chloroaniline	1600U	ug/kg
Phenol	120UJ	ug/kg
bis(2-Chloroethyl)Ether	120U	ug/kg
bis(2-Chloroethoxy)Met+	120U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	770U	ug/kg
Di-n-Octyl Phthalate	120U	ug/kg
Hexachlorobenzene	120U	ug/kg
Anthracene	120U	ug/kg
1,2,4-Trichlorobenzene	120U	ug/kg
2,4-Dichlorophenol	120U	ug/kg
2,4-Dinitrotoluene	310U	ug/kg
Pyrene	6J*	ug/kg
Dimethylphthalate	120U	ug/kg
Dibenzofuran	11NJ*	ug/kg
Benzo(ghi)perylene	120UJ	ug/kg
Indeno(1,2,3-cd)pyrene	120UJ	ug/kg
Benzo(b)fluoranthene	120UJ	ug/kg
Fluoranthene	120U	ug/kg
Benzo(k)fluoranthene	120UJ	ug/kg
Acenaphthylene	120U	ug/kg
Chrysene	120U	ug/kg
Retene	120U	ug/kg
4,6-Dinitro-2-methylph+	1600UJ	ug/kg
1,3-Dichlorobenzene	120U	ug/kg
2,6-Dinitrotoluene	310U	ug/kg
N-Nitroso-di-n-Propyla+	120U	ug/kg
4-Chlorophenyl-phenyle+	120U	ug/kg
BIS(2OCHLOROISOPROPYL)+	120U	ug/kg
Surrog: 2-Fluorobiphen+	82	% Recov

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Surrog: 2-Fluorophenol	63	% Recov
Surrog: D14-Terphenyl	55	% Recov
PYRENE-D10 (SS)	50	% Recov
Surrog: D5-Nitrobenzene	84	% Recov
Surrog: D5-Phenol	88	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
CARYOPHYLLENE (VAN)	660NJ*	ug/kg
2-HEPTANOL ACETATE	2200NJ*	ug/kg
2-PENTANONE, 4-METHOXY+	140NJ*	ug/kg
BICYCLO[7.2.0]UNDEC-4-+	96NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	17000NJ*	ug/kg
9,12,15-OCTADECATRIENO+	8200NJ*	ug/kg
BUTANOIC ACID, 3-OXO-,+	1350NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	3700NJ*	ug/kg
2,4-PENTANEDIONE, 3-ME+	360NJ*	ug/kg
2-CYCLOHEXEN-1-ONE, 3,+	640NJ*	ug/kg
HEXANOIC ACID, THIO-, +	120NJ*	ug/kg
HEXANEDIOIC ACID, MONO+	2800NJ*	ug/kg
ETHANONE, 1-(3,3-DIMET+	310NJ*	ug/kg
CYCLOPENTENE, 1-ISOPRO+	630NJ*	ug/kg
UNKNOWN COMPOUND 1	20000000NJ*	ug/kg
UNKNOWN COMPOUND 2	320NJ*	ug/kg
UNKNOWN COMPOUND 3	390NJ*	ug/kg
UNKNOWN COMPOUND 4	560NJ*	ug/kg
UNKNOWN COMPOUND 5	460NJ*	ug/kg
UNKNOWN COMPOUND 6	340NJ*	ug/kg
UNKNOWN COMPOUND 7	480NJ*	ug/kg
UNKNOWN COMPOUND 8	1100NJ*	ug/kg
UNKNOWN COMPOUND 9	990NJ*	ug/kg
UNKNOWN COMPOUND 10	2700NJ*	ug/kg
UNKNOWN COMPOUND 11	660NJ*	ug/kg
ETHANONE, 1-(3-ETHYLOX+	2800NJ*	ug/kg
ETHER, HEXYL ISOPROPYL	160NJ*	ug/kg
1,3-DIOXANE, 2,4,6-TRI+	140NJ*	ug/kg
1-HEXADECANOL	1100NJ*	ug/kg
1,3,2-DIOXABORINANE, 2+	110NJ*	ug/kg
BUTANAMIDE, N-FORMYL-2+	380NJ*	ug/kg
3-EICOSENE, (E)- (9CI)	1400NJ*	ug/kg
4-HEXADECEN-6-YNE, (E)-	320NJ*	ug/kg
N,N'-BIS(2-METHYL-2-NI+	120NJ*	ug/kg

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	5U	ug/kg
Chlordane (Tech)	50U	ug/kg
gamma-BHC (Lindane)	5U	ug/kg
Dieldrin	5U	ug/kg
Endrin	5U	ug/kg
Methoxychlor	5U	ug/kg
4,4'-DDD	5U	ug/kg
4,4'-DDE	5U	ug/kg
Heptachlor	5U	ug/kg
Aldrin	5U	ug/kg
alpha-BHC	5U	ug/kg
beta-BHC	5U	ug/kg
delta-BHC	5U	ug/kg
Endosulfan I	5U	ug/kg
Heptachlor Epoxide	5U	ug/kg
Endosulfan sulfate	5U	ug/kg
Endrin aldehyde	5U	ug/kg
Toxaphene	300U	ug/kg
PCB - 1260	50U	ug/kg
PCB - 1254	50U	ug/kg
PCB - 1221	50U	ug/kg
PCB - 1232	50U	ug/kg
PCB - 1248	50U	ug/kg
PCB - 1016	50U	ug/kg
Endosulfan II	5U	ug/kg
PCB - 1242	50U	ug/kg
Endrin Ketone	5U	ug/kg
Surrog: 2,4,6-Tribromo+	112	% Recov
DIBUTYLCHLORENDATE (SS)	77	% Recov
DECACHLOROBIPHENYL	70	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU2Z

Laboratory: EPA, Manchester

Sample No: 92 352375 Description: SS06-2 Source: Sediment (General)

Begin Date: 92/08/26 12:30

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.45P*	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.58N*	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	4510E*	mg/kg-dr
Mgnsium	Mg-Sedmt	3580 *	mg/kg-dr
Sodium	Na-Sedmt	808B*	mg/kg-dr
Potssium	K -Sedmt	687 *	mg/kg-dr
Arsenic	As-Sedmt	19.9 *	mg/kg-dr
Barium	Ba-Sedmt	298 *	mg/kg-dr
Berylium	Be-Sedmt	1.04 *	mg/kg-dr
Cadmium	Cd-Sedmt	0.81P*	mg/kg-dr
Chromium	Cr-Sedmt	10.1 *	mg/kg-dr
Cobalt	Co-Sedmt	9.85 *	mg/kg-dr
Copper	Cu-Sedmt	383 *	mg/kg-dr
Lead	Pb-Sedmt	533E*	mg/kg-dr
Mangnese	Mn-Sedmt	317 *	mg/kg-dr
Nickel	Ni-Sedmt	71.8E*	mg/kg-dr
Silver	Ag-Sedmt	3.03N*	mg/kg-dr
Vanadium	V -Sedmt	75.2 *	mg/kg-dr
Zinc	Zn-Sedmt	403E*	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	6940 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	17400 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	21U	ug/kg
Chloroform	3UJ	ug/kg
Benzene	3U	ug/kg
1,1,1-Trichloroethane	0.6J*	ug/kg
Bromomethane	3U	ug/kg
Chloromethane	3UJ	ug/kg
Dibromomethane	3U	ug/kg
Bromochloromethane	3U	ug/kg
Chloroethene	3UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Vinyl Chloride	3UJ	ug/kg
Methylene Chloride	16U	ug/kg
Carbon Disulfide	16U	ug/kg
Bromoform	3UJ	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethene	3U	ug/kg
1,1-Dichloroethene	3U	ug/kg
Trichlorofluoromethane	3UJ	ug/kg
Methane, Dichlorodiflu+	3UJ	ug/kg
1,2-Dichloropropane	3U	ug/kg
2-Butanone	3U	ug/kg
1,1,2-Trichloroethene	3U	ug/kg
Ethene, trichloro-	3U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3U	ug/kg
1,2,3-Trichlorobenzene	4J*	ug/kg
Hexachlorobutadiene	3UJ	ug/kg
Naphthalene	3UJ	ug/kg
2-Chlorotoluene	3UJ	ug/kg
1,2-Dichlorobenzene	3UJ	ug/kg
1,2,4-Trimethylbenzene	3UJ	ug/kg
1,2-Dibromo-3-chloropr+	16 *	ug/kg
1,2,3-Trichloropropane	3UJ	ug/kg
Tert-Butylbenzene	3UJ	ug/kg
Isopropylbenzene (Cume+	3UJ	ug/kg
p-Isopropyltoluene	3UJ	ug/kg
Ethylbenzene	3U	ug/kg
BENZENE, ETHENYL-(STYR+	3U	ug/kg
BENZENE, PROPYL-	3UJ	ug/kg
Butylbenzene	3UJ	ug/kg
4-Chlorotoluene	3UJ	ug/kg
1,4-Dichlorobenzene	3UJ	ug/kg
1,2-Dibromoethene (EDB)	3U	ug/kg
1,2-Dichloroethene	3UJ	ug/kg
4-Methyl-2-Pentanone(M+	3U	ug/kg
1,3,5-Trimethylbenzene	3UJ	ug/kg
Bromobenzene	3UJ	ug/kg
Toluene	3U	ug/kg
Chlorobenzene	3U	ug/kg
1,2,4-Trichlorobenzene	8J*	ug/kg
Dibromochloromethane	3U	ug/kg
Tetrachloroethene	3U	ug/kg
Sec-Butylbenzene	3UJ	ug/kg
1,3-Dichloropropane	3U	ug/kg
Cis-1,2-Dichloroethene	3U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
trans-1,2-Dichloroethe+	3U	ug/kg
1,3-Dichlorobenzene	3UJ	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3U	ug/kg
2,2-Dichloropropane	3UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	3U	ug/kg
Total Xylenes	3UJ	ug/kg
cis-1,3-Dichloropropene	3U	ug/kg
trans-1,3-Dichloroprop+	3U	ug/kg
p-Bromofluorobenzene	69	% Recov
FLUOROBENZENE	102	% Recov
D4-1,2-Dichlorobenzene	100	% Recov
d8-Toluene	116	% Recov
d4-1,2-Dichloroethane	123	% Recov

Tent Ident - VOA Sca	Sediment Result	Units
UNKNOWN HYDROCARBONS (+	77NJ*	ug/kg

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	1600 *	ug/kg
2,4-Dinitrophenol	5200UJ	ug/kg
Dibenzo(a,h)anthracene	210NJ*	ug/kg
Benzo(a)anthracene	1500 *	ug/kg
4-Chloro-3-Methylphenol	2100U	ug/kg
Benzoic acid	5200UJ	ug/kg
Hexachloroethane	400U	ug/kg
Hexachlorocyclopentadi+	2100UJ	ug/kg
Isophorone	3000 *	ug/kg
Acenaphthene	400U	ug/kg
Diethylphthalate	400U	ug/kg
Di-n-Butylphthalate	400U	ug/kg
Phenanthrene	680 *	ug/kg
Butylbenzylphthalate	1000U	ug/kg
N-Nitrosodiphenylamine	5200UJ	ug/kg
Fluorene	400U	ug/kg
Carbazole	2100UJ	ug/kg
Hexachlorobutadiene	1000U	ug/kg
Pentachlorophenol	2100UJ	ug/kg

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352375 Description: SS06-2 Source: Sediment (General)

Begin Date: 92/08/26 12:30

B/N/Acid Scan *** Continued ***	Sediment Result	Units
2,4,6-Trichlorophenol	1000UJ	ug/kg
2-Nitroaniline	1000U	ug/kg
2-Nitrophenol	1000U	ug/kg
Naphthalene, 1-Methyl-	190J*	ug/kg
Naphthalene	190J*	ug/kg
2-Methylnaphthalene	250J*	ug/kg
2-Chloronaphthalene	400U	ug/kg
3,3'-Dichlorobenzidine	10000U	ug/kg
2-Methylphenol	400U	ug/kg
1,2-Dichlorobenzene	400U	ug/kg
o-Chlorophenol (2-Chlo+	400U	ug/kg
2,4,5-Trichlorophenol	2000UJ	ug/kg
Nitrobenzene	400U	ug/kg
3-Nitroaniline	5200UJ	ug/kg
4-Nitroaniline	5200UJ	ug/kg
4-Nitrophenol	5200UJ	ug/kg
Benzyl Alcohol	2100UJ	ug/kg
4-Bromophenyl-phenylet+	400U	ug/kg
2,4-Dimethylphenol	400U	ug/kg
4-Methylphenol	400U	ug/kg
1,4-Dichlorobenzene	400U	ug/kg
4-Chloroaniline	5200U	ug/kg
Phenol	400U	ug/kg
bis(2-Chloroethyl)Ether	400U	ug/kg
bis(2-Chloroethoxy)Met+	400U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	400U	ug/kg
Di-n-Octyl Phthalate	400U	ug/kg
Hexachlorobenzene	400UJ	ug/kg
Anthracene	63J*	ug/kg
1,2,4-Trichlorobenzene	2900 *	ug/kg
2,4-Dichlorophenol	400U	ug/kg
2,4-Dinitrotoluene	1000UJ	ug/kg
Pyrene	3200 *	ug/kg
Dimethylphthalate	400U	ug/kg
Dibenzofuran	51JN*	ug/kg
Benzo(ghi)perylene	1300 *	ug/kg
Indeno(1,2,3-cd)pyrene	1100 *	ug/kg
Benzo(b)fluoranthene	1800HJ*	ug/kg
Fluoranthene	2300 *	ug/kg
Benzo(k)fluoranthene	670NJ*	ug/kg
Acenaphthylene	37J*	ug/kg
Chrysene	1700NJ*	ug/kg
Retene	450JN*	ug/kg
4,6-Dinitro-2-methylph+	5200UJ	ug/kg

B/N/Acid Scan *** Continued ***	Sediment Result	Units
1,3-Dichlorobenzene	400U	ug/kg
2,6-Dinitrotoluene	1000U	ug/kg
N-Nitroso-di-n-Propyla+	400U	ug/kg
4-Chlorophenyl-phenyle+	400UJ	ug/kg
BIS(2OCHLOROISOPROPYL)+	400U	ug/kg
Surrog: 2-Fluorobiphen+	100	% Recov
Surrog: 2-Fluorophenol	33	% Recov
Surrog: D14-Terphenyl	100	% Recov
PYRENE-D10 (SS)	105	% Recov
Surrog: D5-Nitrobenzene	76	% Recov
Surrog: D5-Phenol	63	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
2-PENTANONE, 4-METHOXY+	4200NJ*	ug/kg
1,3,5-Trichlorobenzene	460NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	33000NJ*	ug/kg
3-PENTEN-2-ONE, 4-METH+	75000NJ*	ug/kg
BENZO(GHI)FLUORANTHENE	820NJ*	ug/kg
BENZO(J)FLUORANTHENE	1700NJ*	ug/kg
2,5-HEPTADIEN-4-ONE, 2+	1300NJ*	ug/kg
ANTHRACENE, 2-METHYL-	220NJ*	ug/kg
1,2,3,5-TETRACHLOROBEN+	710NJ*	ug/kg
2,4-PENTANEDIONE, 3-(2+	170NJ*	ug/kg
HEXANEDIOIC ACID, MONO+	8900NJ*	ug/kg
CYCLOPENTENE, 1-ISOPRO+	760NJ*	ug/kg
1,4-CYCLOOCTADIENE, (Z+	1100NJ*	ug/kg
2-PROPANONE, 1-(3,5,5-+	180NJ*	ug/kg
1,2-BENZENEDICARBOXYLI+	340NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	5200NJ*	ug/kg
2-PHENYLNAPHTHALENE	200NJ*	ug/kg
1,1'-BIPHENYL, 2,3,3',+	490NJ*	ug/kg
1,1'-BIPHENYL, 2,2',3,+	710NJ*	ug/kg
1,1'-BIPHENYL, 2,2',3,+	2600NJ*	ug/kg
1,1'-BIPHENYL, 2,2',3,+	2500NJ*	ug/kg
1,1'-BIPHENYL, 2,2',3,+	1100NJ*	ug/kg
1,1'-BIPHENYL, 2,2',3,+	970NJ*	ug/kg
1,1'-BIPHENYL, 2,2',3,+	2200NJ*	ug/kg
1,1'-BIPHENYL, 2,2',4,+	3400NJ*	ug/kg
1,1'-BIPHENYL, 2,2',3,+	930NJ*	ug/kg
2-HEPTANONE, 6-METHYL-+	640NJ*	ug/kg
1,1'-BIPHENYL, 2,2',3,+	1200NJ*	ug/kg

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	41U	ug/kg
Chlordane (Tech)	410U	ug/kg
gamma-BHC (Lindane)	41U	ug/kg
Dieldrin	41U	ug/kg
Endrin	41U	ug/kg
Methoxychlor	41U	ug/kg
4,4'-DDD	41U	ug/kg
4,4'-DDE	41U	ug/kg
Heptachlor	41U	ug/kg
Aldrin	41U	ug/kg
alpha-BHC	41U	ug/kg
beta-BHC	41U	ug/kg
delta-BHC	41U	ug/kg
Endosulfan I	41U	ug/kg
Heptachlor Epoxide	41U	ug/kg
Endosulfan sulfate	41U	ug/kg
Endrin aldahyde	41U	ug/kg
Toxaphene	2500U	ug/kg
PCB - 1260	86700 *	ug/kg
PCB - 1254	410U	ug/kg
PCB - 1221	410U	ug/kg
PCB - 1232	410U	ug/kg
PCB - 1248	410U	ug/kg
PCB - 1016	410U	ug/kg
Endosulfan II	41U	ug/kg
PCB - 1242	410U	ug/kg
Endrin Ketone	41U	ug/kg
Surrog: 2,4,6-Tribromo+	142	% Recov
DIBUTYLCHLORENDATE (SS)	HAF	% Recov
DECACHLOROBIPHENYL	103	% Recov

(Sample Complete)

Project: TEC-573A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352376 Description: SS07-1 Source: Sediment (General)

Begin Date: 92/08/26 12:10

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.20UN	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.02UN	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	3060 *	mg/kg-dr
Magnesium	Mg-Sedmt	6180 *	mg/kg-dr
Sodium	Na-Sedmt	463B*	mg/kg-dr
Potassium	K -Sedmt	2870 *	mg/kg-dr
Arsenic	As-Sedmt	44.5 *	mg/kg-dr
Barium	Ba-Sedmt	98.6 *	mg/kg-dr
Beryllium	Be-Sedmt	0.599 *	mg/kg-dr
Cadmium	Cd-Sedmt	0.29P*	mg/kg-dr
Chromium	Cr-Sedmt	10.8 *	mg/kg-dr
Cobalt	Co-Sedmt	10.2 *	mg/kg-dr
Copper	Cu-Sedmt	31.6 *	mg/kg-dr
Lead	Pb-Sedmt	24.8 *	mg/kg-dr
Mangnese	Mn-Sedmt	491 *	mg/kg-dr
Nickel	Ni-Sedmt	15.3 *	mg/kg-dr
Silver	Ag-Sedmt	4.31 *	mg/kg-dr
Vanadium	V -Sedmt	18.1 *	mg/kg-dr
Zinc	Zn-Sedmt	50.3 *	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	12600 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	23800 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	16UJ	ug/kg
Chloroform	3U	ug/kg
Benzene	3U	ug/kg
1,1,1-Trichloroethane	0.6J*	ug/kg
Bromomethane	3U	ug/kg
Chloromethane	3UJ	ug/kg
Dibromomethane	3U	ug/kg
Bromochloromethane	3U	ug/kg
Chloroethane	3UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Vinyl Chloride	3UJ	ug/kg
Methylene Chloride	5U	ug/kg
Carbon Disulfide	0.1J*	ug/kg
Bromoform	3U	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethene	3U	ug/kg
1,1-Dichloroethane	0.4J*	ug/kg
Trichlorofluoromethane	3UJ	ug/kg
Methane, Dichlorodiflu+	76J*	ug/kg
1,2-Dichloropropane	3U	ug/kg
2-Butanone	16U	ug/kg
1,1,2-Trichloroethane	3U	ug/kg
Ethane, trichloro-	0.1J*	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3U	ug/kg
1,2,3-Trichlorobenzene	3U	ug/kg
Hexachlorobutadiene	3U	ug/kg
Naphthalene	3U	ug/kg
Benzene, 1,2-Dimethyl	3U	ug/kg
2-Chlorotoluene	3U	ug/kg
1,2-Dichlorobenzene	3U	ug/kg
1,2,4-Trimethylbenzene	3U	ug/kg
1,2-Dibromo-3-chloropr+	16U	ug/kg
1,2,3-Trichloropropane	3U	ug/kg
Tert-Butylbenzene	3U	ug/kg
Isopropylbenzene (Cume+	3U	ug/kg
p-Isopropyltoluene	3U	ug/kg
Ethylbenzene	3U	ug/kg
BENZENE, ETHENYL-(STYR+	3U	ug/kg
BENZENE, PROPYL-	3U	ug/kg
Butylbenzene	3U	ug/kg
4-Chlorotoluene	3U	ug/kg
1,4-Dichlorobenzene	3U	ug/kg
1,2-Dibromoethane (EDB)	3U	ug/kg
1,2-Dichloroethane	3UJ	ug/kg
4-Methyl-2-Pentanone(M+	3U	ug/kg
1,3,5-Trimethylbenzene	3UJ	ug/kg
Bromobenzene	3U	ug/kg
Toluene	3U	ug/kg
Chlorobenzene	3U	ug/kg
1,2,4-Trichlorobenzene	3U	ug/kg
Dibromochloromethane	3U	ug/kg
Tetrachloroethene	3U	ug/kg
Sec-Butylbenzene	3U	ug/kg
1,3-Dichloropropane	3U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Cis-1,2-Dichloroethene -	3U	ug/kg
trans-1,2-Dichloroethe+	0.5J*	ug/kg
1,3-Dichlorobenzene	3U	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3U	ug/kg
2,2-Dichloropropane	3U	ug/kg
Ethane, 1,1,1,2-Tetrac+	3U	ug/kg
cis-1,3-Dichloropropene	3U	ug/kg
trans-1,3-Dichloroprop+	3U	ug/kg
p-Bromofluorobenzene	81	% Recov
FLUOROBENZENE	99	% Recov
d8-Toluene	102	% Recov
d4-1,2-Dichlorobenzene+	105	% Recov
1,2-Dichloroethane-d4 +	114	% Recov

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	120U	ug/kg
2,4-Dinitrophenol	REJ	ug/kg
Dibenzo(a,h)anthracene	300U	ug/kg
Benzo(a)anthracene	120U	ug/kg
4-Chloro-3-Methylphenol	REJ	ug/kg
Benzoic acid	REJ	ug/kg
Hexachloroethane	120U	ug/kg
Hexachlorocyclopentadi+	600UJ	ug/kg
Isophorone	5J*	ug/kg
Acenaphthene	120U	ug/kg
Diethylphthalate	300U	ug/kg
Di-n-Butylphthalate	810U	ug/kg
Phenanthrene	65J*	ug/kg
Butylbenzylphthalate	310U	ug/kg
N-Nitrosodiphenylamine	1500UJ	ug/kg
Fluorene	120U	ug/kg
Carbazole	600UJ	ug/kg
Hexachlorobutadiene	300U	ug/kg
Pentachlorophenol	REJ	ug/kg
2,4,6-Trichlorophenol	REJ	ug/kg
2-Nitroaniline	300U	ug/kg
2-Nitrophenol	REJ	ug/kg
Naphthalene, 1-Methyl-	17J*	ug/kg
Naphthalene	45J*	ug/kg
2-Methylnaphthalene	22J*	ug/kg

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPU2Z

Laboratory: EPA, Manchester

Sample No: 92 352376 Description: SS07-1 Source: Sediment (General)

Begin Date: 92/08/26 12:10

B/N/Acid Scan *** Continued ***	Sediment Result	Units
2-Chloronaphthalene	120U	ug/kg
3,3'-Dichlorobenzidine	3000U	ug/kg
2-Methylphenol	REJ	ug/kg
1,2-Dichlorobenzene	120U	ug/kg
o-Chlorophenol (2-Chlo+	REJ	ug/kg
2,4,5-Trichlorophenol	REJ	ug/kg
Nitrobenzene	120U	ug/kg
3-Nitroaniline	1500UJ	ug/kg
4-Nitroaniline	1500U	ug/kg
4-Nitrophenol	REJ	ug/kg
Benzyl Alcohol	600U	ug/kg
4-Bromophenyl-phenylet+	120UJ	ug/kg
2,4-Dimethylphenol	REJ	ug/kg
4-Methylphenol	REJ	ug/kg
1,4-Dichlorobenzene	120U	ug/kg
4-Chloroaniline	1500U	ug/kg
Phenol	REJ	ug/kg
bis(2-Chloroethyl)Ether	120U	ug/kg
bis(2-Chloroethoxy)Met+	120U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	1700U	ug/kg
Di-n-Octyl Phthalate	120UJ	ug/kg
Hexachlorobenzene	120UJ	ug/kg
Anthracene	9J*	ug/kg
1,2,4-Trichlorobenzene	120U	ug/kg
2,4-Dichlorophenol	REJ	ug/kg
2,4-Dinitrotoluene	300U	ug/kg
Pyrene	43J*	ug/kg
Dimethylphthalate	120U	ug/kg
Dibenzofuran	21J*	ug/kg
Benzo(ghi)perylene	66J*	ug/kg
Indeno(1,2,3-cd)pyrene	52J*	ug/kg
Benzo(b)fluoranthene	79J*	ug/kg
Fluoranthene	45J*	ug/kg
Benzo(k)fluoranthene	120UJ	ug/kg
Acenaphthylene	120U	ug/kg
Chrysene	120U	ug/kg
Retene	28J*	ug/kg
4,6-Dinitro-2-methylph+	REJ	ug/kg
1,3-Dichlorobenzene	120U	ug/kg
2,6-Dinitrotoluene	300U	ug/kg
N-Nitroso-di-n-Propyla+	120UJ	ug/kg
4-Chlorophenyl-phenyle+	120U	ug/kg
BIS(2OCHLOROISOPROPYL)+	120UJ	ug/kg
Surrog: 2-Fluorobiphen+	83	% Recov

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Surrog: 2-Fluorophenol	17	% Recov
Surrog: D14-Terphenyl	91	% Recov
PYRENE-D10 (SS)	90	% Recov
Surrog: D5-Nitrobenzene	59	% Recov
Surrog: D5-Phenol	8	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
ETHANE, 1,1,2,2-TETRAC+	600NJ*	ug/kg
CARYOPHYLLENE (VAN)	220NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	6800NJ*	ug/kg
9,12,15-OCTADECATRIENO+	2000NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	930NJ*	ug/kg
1-DOCOSANOL	2800NJ*	ug/kg
2-HEXANONE, 6-(ACETYLO+	1200NJ*	ug/kg
UNKNOWN HYDROCARBON 1	210NJ*	ug/kg
UNKNOWN HYDROCARBON 2	170NJ*	ug/kg
UNKNOWN HYDROCARBON 3	1200NJ*	ug/kg
UNKNOWN HYDROCARBON 4	1400NJ*	ug/kg
UNKNOWN HYDROCARBON 5	1900NJ*	ug/kg
UNKNOWN HYDROCARBON 6	1700NJ*	ug/kg
UNKNOWN COMPOUND 1	220NJ*	ug/kg
UNKNOWN COMPOUND 2	64NJ*	ug/kg
UNKNOWN COMPOUND 3	460NJ*	ug/kg
UNKNOWN COMPOUND 4	410NJ*	ug/kg
UNKNOWN COMPOUND 5	82NJ*	ug/kg
UNKNOWN COMPOUND 6	640NJ*	ug/kg
UNKNOWN COMPOUND 7	1000NJ*	ug/kg
UNKNOWN COMPOUND 8	1200NJ*	ug/kg
UNKNOWN COMPOUND 9	120NJ*	ug/kg
UNKNOWN COMPOUND 10	190NJ*	ug/kg
UNKNOWN COMPOUND 11	700NJ*	ug/kg
UNKNOWN COMPOUND 12	2100NJ*	ug/kg
2-HEXANONE, 6-BROMO-	580NJ*	ug/kg
ETHANONE, 1-13-ETHYLOX+	620NJ*	ug/kg
1,2-BENZENEDICARBOXYLI+	340NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	1300NJ*	ug/kg
1-HEXADECANOL	2400NJ*	ug/kg
PROPANOIC ACID, 2-METH+	110NJ*	ug/kg
1,E-4,2-8-DODECATRIENE	75NJ*	ug/kg

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	5U	ug/kg
Chlordane (Tech)	48U	ug/kg
gamma-BHC (Lindane)	5U	ug/kg
Dieldrin	5U	ug/kg
Endrin	5U	ug/kg
Methoxychlor	5U	ug/kg
4,4'-DDD	5U	ug/kg
4,4'-DDE	5U	ug/kg
Heptachlor	5U	ug/kg
Aldrin	5U	ug/kg
alpha-BHC	5U	ug/kg
beta-BHC	5U	ug/kg
delta-BHC	5U	ug/kg
Endosulfan I	5U	ug/kg
Heptachlor Epoxide	5U	ug/kg
Endosulfan sulfate	5U	ug/kg
Endrin aldehyde	5U	ug/kg
Toxaphene	290U	ug/kg
PCB - 1260	48U	ug/kg
PCB - 1254	48U	ug/kg
PCB - 1221	48U	ug/kg
PCB - 1232	48U	ug/kg
PCB - 1248	48U	ug/kg
PCB - 1016	48U	ug/kg
Endosulfan II	5U	ug/kg
PCB - 1242	48U	ug/kg
Endrin Ketone	5U	ug/kg
Surrog: 2,4,6-Tribromo+	117	% Recov
DIBUTYLCHLORENDATE (SS)	86	% Recov
DECACHLOROBIPHENYL	73	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352377 Description: SS07-2 Source: Sediment (General)

Begin Date: 92/08/26 12:10

Metals - Specified		Sediment Result	Units
Selenium	Se-Sedmt	0.46P*	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr
Mercury	Hg-Sedmt	0.057N*	mg/kg-wt

Metals - ICP Scan		Sediment Result	Units
Calcium	Ca-Sedmt	8050E*	mg/kg-dr
Mgnsium	Mg-Sedmt	3360 *	mg/kg-dr
Sodium	Na-Sedmt	906B*	mg/kg-dr
Potssium	K -Sedmt	933 *	mg/kg-dr
Arsenic	As-Sedmt	39.9 *	mg/kg-dr
Barium	Ba-Sedmt	597 *	mg/kg-dr
Beryllium	Be-Sedmt	1.45 *	mg/kg-dr
Cadmium	Cd-Sedmt	0.51P*	mg/kg-dr
Chromium	Cr-Sedmt	9.94 *	mg/kg-dr
Cobalt	Co-Sedmt	8.58 *	mg/kg-dr
Copper	Cu-Sedmt	184 *	mg/kg-dr
Lead	Pb-Sedmt	292 *	mg/kg-dr
Mangnese	Mn-Sedmt	371 *	mg/kg-dr
Nickel	Ni-Sedmt	33.9 *	mg/kg-dr
Silver	Ag-Sedmt	3.62N*	mg/kg-dr
Vanadium	V -Sedmt	49.1 *	mg/kg-dr
Zinc	Zn-Sedmt	63.7E*	mg/kg-dr
Antimony	Sb-Sedmt	3.0UN	mg/kg-dr
Aluminum	Al-Sedmt	10200 *	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	20400 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	9UJ	ug/kg
Chloroform	3U	ug/kg
Benzene	3UJ	ug/kg
1,1,1-Trichloroethane	1J*	ug/kg
Bromomethane	3U	ug/kg
Chloromethane	3UJ	ug/kg
Dibromomethane	3UJ	ug/kg
Bromochloromethane	3U	ug/kg
Chloroethane	3UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Vinyl Chloride	3UJ	ug/kg
Methylene Chloride	16U	ug/kg
Carbon Disulfide	16U	ug/kg
Bromoform	3UJ	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethane	3U	ug/kg
1,1-Dichloroethene	3U	ug/kg
Trichlorofluoromethane	3UJ	ug/kg
Methane, Dichlorodiflu+	16UJ	ug/kg
1,2-Dichloropropane	3UJ	ug/kg
2-Butanone	4UJ	ug/kg
1,1,2-Trichloroethane	3UJ	ug/kg
Ethene, trichloro-	3UJ	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3UJ	ug/kg
1,2,3-Trichlorobenzene	3UJ	ug/kg
Hexachlorobutadiene	3UJ	ug/kg
Naphthalene	2J*	ug/kg
2-Chlorotoluene	3UJ	ug/kg
1,2-Dichlorobenzene	3UJ	ug/kg
1,2,4-Trimethylbenzene	3UJ	ug/kg
1,2-Dibromo-3-chloropr+	16UJ	ug/kg
1,2,3-Trichloropropane	3UJ	ug/kg
Tert-Butylbenzene	3UJ	ug/kg
Isopropylbenzene (Cume+	3UJ	ug/kg
p-Isopropyltoluene	3UJ	ug/kg
Ethylbenzene	3UJ	ug/kg
BENZENE, ETHENYL-(STYR+	3UJ	ug/kg
BENZENE, PROPYL-	3UJ	ug/kg
Butylbenzene	3UJ	ug/kg
4-Chlorotoluene	3UJ	ug/kg
1,4-Dichlorobenzene	3UJ	ug/kg
1,2-Dibromoethane (EDB)	3UJ	ug/kg
1,2-Dichloroethane	3UJ	ug/kg
4-Methyl-2-Pentanone(M+	3UJ	ug/kg
1,3,5-Trimethylbenzene	3UJ	ug/kg
Bromobenzene	3UJ	ug/kg
Toluene	3UJ	ug/kg
Chlorobenzene	3UJ	ug/kg
1,2,4-Trichlorobenzene	3UJ	ug/kg
Dibromochloromethane	3UJ	ug/kg
Tetrachloroethene	3UJ	ug/kg
Sec-Butylbenzene	3UJ	ug/kg
1,3-Dichloropropane	3UJ	ug/kg
Cis-1,2-Dichloroethene	3U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
trans-1,2-Dichloroethe+	3U	ug/kg
1,3-Dichlorobenzene	3UJ	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3UJ	ug/kg
2,2-Dichloropropane	3U	ug/kg
Ethane, 1,1,1,2-Tetrac+	3UJ	ug/kg
Total Xylenes	3UJ	ug/kg
cis-1,3-Dichloropropene	3UJ	ug/kg
trans-1,3-Dichloroprop+	3UJ	ug/kg
p-Bromofluorobenzene	20	% Recov
FLUOROBENZENE	32	% Recov
d8-Toluene	43	% Recov
d4-1,2-Dichlorobenzene+	35	% Recov
1,2-Dichloroethane-d4 +	41	% Recov

B/N/Acid Scan	Sediment Result	Units
Benzo(a)pyrene	91J*	ug/kg
2,4-Dinitrophenol	5200UJ	ug/kg
Dibenzo(a,h)anthracene	1000U	ug/kg
Benzo(a)anthracene	270J*	ug/kg
4-Chloro-3-Methylphenol	2100U	ug/kg
Benzoic acid	5200UJ	ug/kg
Hexachloroethane	400U	ug/kg
Hexachlorocyclopentadi+	2100UJ	ug/kg
Isophorone	820J*	ug/kg
Acenaphthene	91NJ*	ug/kg
Diethylphthalate	400U	ug/kg
Di-n-Butylphthalate	400U	ug/kg
Phenanthrene	4300U	ug/kg
Butylbenzylphthalate	1000U	ug/kg
N-Nitrosodiphenylamine	84NJ*	ug/kg
Fluorene	31NJ*	ug/kg
Carbazole	130J*	ug/kg
Hexachlorobutadiene	1000U	ug/kg
Pentachlorophenol	2100U	ug/kg
2,4,6-Trichlorophenol	1000U	ug/kg
2-Nitroaniline	1000U	ug/kg
2-Nitrophenol	1000U	ug/kg
Naphthalene, 1-Methyl-	1800 *	ug/kg
Naphthalene	4400 *	ug/kg
2-Methylnaphthalene	2200 *	ug/kg

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: M2R Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352377 Description: SS07-2 Source: Sediment (General)

Begin Date: 92/08/26 12:10

B/N/Acid Scan *** Continued ***	Sediment Result	Units
2-Chloronaphthalene	400U	ug/kg
3,3'-Dichlorobenzidine	10000U	ug/kg
2-Methylphenol	400U	ug/kg
1,2-Dichlorobenzene	400U	ug/kg
o-Chlorophenol (2-Chlo+	400U	ug/kg
2,4,5-Trichlorophenol	2000U	ug/kg
Nitrobenzene	400U	ug/kg
3-Nitroaniline	5200UJ	ug/kg
4-Nitroaniline	5200UJ	ug/kg
4-Nitrophenol	5200UJ	ug/kg
Benzyl Alcohol	2100U	ug/kg
4-Bromophenyl-phenylet+	400U	ug/kg
2,4-Dimethylphenol	400U	ug/kg
4-Methylphenol	400U	ug/kg
1,4-Dichlorobenzene	400U	ug/kg
4-Chloroaniline	5200U	ug/kg
Phenol	400U	ug/kg
bis(2-Chloroethyl)Ether	400U	ug/kg
bis(2-Chloroethoxy)Met+	400U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	2300U	ug/kg
Di-n-Octyl Phthalate	400U	ug/kg
Hexachlorobenzene	400U	ug/kg
Anthracene	220J*	ug/kg
1,2,4-Trichlorobenzene	400U	ug/kg
2,4-Dichlorophenol	400U	ug/kg
2,4-Dinitrotoluene	1000U	ug/kg
Pyrene	850 *	ug/kg
Dimethylphthalate	400U	ug/kg
Dibenzofuran	2500 *	ug/kg
Benzo(ghi)perylene	400U	ug/kg
Indeno(1,2,3-cd)pyrene	170J*	ug/kg
Benzo(b)fluoranthene	760 *	ug/kg
Fluoranthene	1700 *	ug/kg
Benzo(k)fluoranthene	210J*	ug/kg
Acenaphthylene	24J*	ug/kg
Chrysene	670 *	ug/kg
Retene	1100 *	ug/kg
4,6-Dinitro-2-methylph+	5200UJ	ug/kg
1,3-Dichlorobenzene	400U	ug/kg
2,6-Dinitrotoluene	1000U	ug/kg
N-Nitroso-di-n-Propyla+	400UJ	ug/kg
4-Chlorophenyl-phenyle+	400U	ug/kg
BIS(2OCHLOROISOPROPYL)+	400UJ	ug/kg
Surrog: 2-Fluorobiphen+	106	% Recov

B/N/Acid Scan *** Continued ***	Sediment Result	Units
Surrog: 2-Fluorophenol	38	% Recov
Surrog: D14-Terphenyl	109	% Recov
PYRENE-D10 (SS)	81	% Recov
Surrog: D5-Nitrobenzene	76	% Recov
Surrog: D5-Phenol	62	% Recov

Tent Ident - B/N/Aci	Sediment Result	Units
7H-BENZ[DE]ANTHRACENE-+	380NJ*	ug/kg
9,10-ANTHRACENEDIONE	720NJ*	ug/kg
1,1'-BIPHENYL	760NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	24000NJ*	ug/kg
BENZO[B]NAPHTHO[2,3-D]+	590NJ*	ug/kg
9,12,15-OCTADECATRIENO+	1900NJ*	ug/kg
NAPHTHALENE, 1,6-DIMET+	600NJ*	ug/kg
9H-FLUOREN-9-ONE	2600NJ*	ug/kg
NAPHTHALENE, 1-METHYL-+	550NJ*	ug/kg
NAPHTHALENE, 1,8-DIMET+	800NJ*	ug/kg
NAPHTHALENE, 1,5-DIMET+	610NJ*	ug/kg
1-BUTENE, 2,3,3-TRIMET+	2200NJ*	ug/kg
ANTHRACENE, 2-METHYL-	500NJ*	ug/kg
2-HEXANONE, 6-(ACETYLO+	1400NJ*	ug/kg
CYCLOPENTA(DEF)PHENANT+	760NJ*	ug/kg
UNKNOWN HYDROCARBON 1	1700NJ*	ug/kg
UNKNOWN HYDROCARBON 2	1600NJ*	ug/kg
UNKNOWN HYDROCARBON 3	2400NJ*	ug/kg
UNKNOWN HYDROCARBON 4	3400NJ*	ug/kg
UNKNOWN COMPOUND 1	560NJ*	ug/kg
UNKNOWN COMPOUND 2	1000NJ*	ug/kg
UNKNOWN COMPOUND 3	330NJ*	ug/kg
UNKNOWN COMPOUND 4	140NJ*	ug/kg
2-HEXANONE, 6-BROMO-	600NJ*	ug/kg
ETHANONE, 1-[3-ETHYLOX+	1060NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	4300NJ*	ug/kg
NAPHTHALENE, 7-BUTYL-1+	460NJ*	ug/kg
2,6-DIMETHYL-6-NITRO-2+	590NJ*	ug/kg

Pest/PCB - PP Scan	Sediment Result	Units
4,4'-DDT	4U	ug/kg
Chlordane (Tech)	41U	ug/kg
gamma-BHC (Lindane)	4U	ug/kg
Dieldrin	4U	ug/kg
Endrin	4U	ug/kg
Methoxychlor	4U	ug/kg
4,4'-DDD	4U	ug/kg
4,4'-DDE	4U	ug/kg
Heptachlor	4U	ug/kg
Aldrin	4U	ug/kg
alpha-BHC	4U	ug/kg
beta-BHC	4U	ug/kg
delta-BHC	4U	ug/kg
Endosulfan 1	4U	ug/kg
Heptachlor Epoxide	4U	ug/kg
Endosulfan sulfate	4U	ug/kg
Endrin aldehyde	4U	ug/kg
Toxaphene	240U	ug/kg
PCB - 1260	130 *	ug/kg
PCB - 1254	41U	ug/kg
PCB - 1221	41U	ug/kg
PCB - 1232	41U	ug/kg
PCB - 1248	41U	ug/kg
PCB - 1016	41U	ug/kg
Endosulfan II	4U	ug/kg
PCB - 1242	41U	ug/kg
Endrin Ketone	4U	ug/kg
Surrog: 2,4,6-Tribromo+	136	% Recov
DIBUTYLCHLORENDATE (SS)	71	% Recov
DECACHLOROBIPHENYL	95	% Recov

(Sample Complete)

Project: TEC-375A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Blank ID: BLANK

Metals - Specified Blank #1		Water-Total Result	Units
Mercury	Hg-Total	.2U	ug/l

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: M2R Account: FA10PUZZ

Blank ID: BS2246

B/N/Acid Scan Blank #1	Sediment Result	Units
Benzo(a)pyrene	99U	ug/kg
2,4-Dinitrophenol	1300UJ	ug/kg
Dibenzo(a,h)anthracene	250U	ug/kg
Benzo(a)anthracene	99U	ug/kg
4-Chloro-3-Methylphenol	510U	ug/kg
Benzoic acid	1300UJ	ug/kg
Hexachloroethane	99U	ug/kg
Hexachlorocyclopentadi+	510UJ	ug/kg
Isophorone	99U	ug/kg
Acenaphthene	99U	ug/kg
Diethylphthalate	99U	ug/kg
Di-n-Butylphthalate	26J*	ug/kg
Phenanthrene	6J*	ug/kg
Butylbenzylphthalate	250U	ug/kg
N-Nitrosodiphenylamine	12J*	ug/kg
Fluorene	99U	ug/kg
Carbazole	510UJ	ug/kg
Hexachlorobutadiene	250UJ	ug/kg
Pentachlorophenol	510U	ug/kg
2,4,6-Trichlorophenol	250UJ	ug/kg
2-Nitroaniline	250UJ	ug/kg
2-Nitrophenol	250U	ug/kg
Naphthalene, 1-Methyl-	99U	ug/kg
Naphthalene	4J*	ug/kg
2-Methylnaphthalene	99U	ug/kg
2-Chloronaphthalene	99U	ug/kg
3,3'-Dichlorobenzidine	2500U	ug/kg
2-Methylphenol	99U	ug/kg
1,2-Dichlorobenzene	99U	ug/kg
o-Chlorophenol (2-Chlo+	99U	ug/kg
2,4,5-Trichlorophenol	500UJ	ug/kg
Nitrobenzene	99U	ug/kg
3-Nitroaniline	1300UJ	ug/kg
4-Nitroaniline	1300U	ug/kg
4-Nitrophenol	1300U	ug/kg
Benzyl Alcohol	510UJ	ug/kg
4-Bromophenyl-phenylet+	99UJ	ug/kg
2,4-Dimethylphenol	99U	ug/kg
4-Methylphenol	99U	ug/kg
1,4-Dichlorobenzene	99U	ug/kg
4-Chloroaniline	1300U	ug/kg
Phenol	99U	ug/kg
bis(2-Chloroethyl)Ether	99U	ug/kg
bis(2-Chloroethoxy)Met+	99U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	54J*	ug/kg

B/N/Acid Scan *** Continued *** Blank #1	Sediment Result	Units
Di-n-Octyl Phthalate	3J*	ug/kg
Hexachlorobenzene	99UJ	ug/kg
Anthracene	99U	ug/kg
1,2,4-Trichlorobenzene	99U	ug/kg
2,4-Dichlorophenol	99U	ug/kg
2,4-Dinitrotoluene	250U	ug/kg
Pyrene	9J*	ug/kg
Dimethylphthalate	99U	ug/kg
Dibenzofuran	99U	ug/kg
Benzo(ghi)perylene	99U	ug/kg
Indeno(1,2,3-cd)pyrene	99U	ug/kg
Benzo(b)fluoranthene	99U	ug/kg
Fluoranthene	99U	ug/kg
Benzo(k)fluoranthene	99U	ug/kg
Acenaphthylene	99U	ug/kg
Chrysene	99U	ug/kg
Retene	99U	ug/kg
4,6-Dinitro-2-methylph+	1300UJ	ug/kg
1,3-Dichlorobenzene	99U	ug/kg
2,6-Dinitrotoluene	250U	ug/kg
N-Nitroso-di-n-Propyla+	99U	ug/kg
4-Chlorophenyl-phenyla+	99UJ	ug/kg
BIS(2OCHLOROISOPROPYL)+	99U	ug/kg
Surrog: 2-Fluorobiphen+	66	% Recov
Surrog: 2-Fluorophenol	14	% Recov
Surrog: D14-Terphenyl	77	% Recov
PYRENE-D10 (SS)	42	% Recov
Surrog: D5-Nitrobenzene	54	% Recov
Surrog: D5-Phenol	19	% Recov

Tent Ident - B/N/Aci Blank #1	Sediment Result	Units
UNKNOWN COMPOUND	160NJ*	ug/kg
ETHANE, 1,1,2,2-TETRAC+	210NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	5600NJ*	ug/kg
3-PENTEN-2-ONE, 4-METH+	11000NJ*	ug/kg
2,5-HEPTADIEN-4-ONE, 2+	250NJ*	ug/kg
2,4-PENTANEDIONE, 3-(2+	51NJ*	ug/kg
UNKNOWN COMPOUND 1	34NJ*	ug/kg
2-BUTANONE, 4-(ACETYLO+	1600NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	460NJ*	ug/kg
2,6-DIMETHYL-6-NITRO-2+	390NJ*	ug/kg

Pest/PCB - PP Scan Blank #1	Sediment Result	Units
4,4'-DDT	NAF	ug/kg
Chlordane (Tech)	NAF	ug/kg
gamma-BHC (Lindane)	NAF	ug/kg
Dieldrin	NAF	ug/kg
Endrin	NAF	ug/kg
Methoxychlor	NAF	ug/kg
4,4'-DDD	NAF	ug/kg
4,4'-DDE	NAF	ug/kg
Heptachlor	NAF	ug/kg
Aldrin	NAF	ug/kg
alpha-BHC	NAF	ug/kg
beta-BHC	NAF	ug/kg
delta-BHC	NAF	ug/kg
Endosulfan I	NAF	ug/kg
Heptachlor Epoxide	NAF	ug/kg
Endosulfan sulfate	NAF	ug/kg
Endrin aldehyde	NAF	ug/kg
Toxaphene	NAF	ug/kg
PCB - 1260	NAF	ug/kg
PCB - 1254	NAF	ug/kg
PCB - 1221	NAF	ug/kg
PCB - 1232	NAF	ug/kg
PCB - 1248	NAF	ug/kg
PCB - 1016	NAF	ug/kg
Endosulfan II	NAF	ug/kg
PCB - 1242	NAF	ug/kg
Endrin Ketone	NAF	ug/kg
Surrog: 2,4,6-Tribromo+	153	% Recov
DIBUTYLCHLORENDATE (SS)	81	% Recov
DECACHLOROBIPHENYL	99	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Blank ID: BS2246D

B/N/Acid Scan Blank #2	Sediment Result	Units
Benzo(a)pyrene	99U	ug/kg
2,4-Dinitrophenol	1300UJ	ug/kg
Dibenzo(a,h)anthracene	250U	ug/kg
Benzo(a)anthracene	99U	ug/kg
4-Chloro-3-Methylphenol	510U	ug/kg
Benzoic acid	1300UJ	ug/kg
Hexachloroethane	99U	ug/kg
Hexachlorocyclopentadi+	510UJ	ug/kg
Isophorone	150U	ug/kg
Acenaphthene	99U	ug/kg
Diethylphthalate	99U	ug/kg
Di-n-Butylphthalate	55J*	ug/kg
Phenanthrene	8J*	ug/kg
Butylbenzylphthalate	250U	ug/kg
N-Nitrosodiphenylamine	1300UJ	ug/kg
Fluorene	99U	ug/kg
Carbazole	510UJ	ug/kg
Hexachlorobutadiene	250UJ	ug/kg
Pentachlorophenol	510U	ug/kg
2,4,6-Trichlorophenol	250UJ	ug/kg
2-Nitroaniline	250UJ	ug/kg
2-Nitrophenol	250U	ug/kg
Naphthalene, 1-Methyl-	99U	ug/kg
Naphthalene	6J*	ug/kg
2-Methylnaphthalene	99U	ug/kg
2-Chloronaphthalene	99U	ug/kg
3,3'-Dichlorobenzidine	2500U	ug/kg
2-Methylphenol	99U	ug/kg
1,2-Dichlorobenzene	99U	ug/kg
o-Chlorophenol (2-Chlo+	99U	ug/kg
2,4,5-Trichlorophenol	500UJ	ug/kg
Nitrobenzene	99U	ug/kg
3-Nitroaniline	1300UJ	ug/kg
4-Nitroaniline	1300U	ug/kg
4-Nitrophenol	1300U	ug/kg
Benzyl Alcohol	510UJ	ug/kg
4-Bromophenyl-phenylet+	99UJ	ug/kg
2,4-Dimethylphenol	99U	ug/kg
4-Methylphenol	99U	ug/kg
1,4-Dichlorobenzene	99U	ug/kg
4-Chloroaniline	1300U	ug/kg
Phenol	33J*	ug/kg
bis(2-Chloroethyl)Ether	99U	ug/kg
bis(2-Chloroethoxy)Met+	99U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	24J*	ug/kg

B/N/Acid Scan *** Continued *** Blank #2	Sediment Result	Units
Di-n-Octyl Phthalate	99UJ	ug/kg
Hexachlorobenzene	99UJ	ug/kg
Anthracene	99U	ug/kg
1,2,4-Trichlorobenzene	99U	ug/kg
2,4-Dichlorophenol	99U	ug/kg
2,4-Dinitrotoluene	250U	ug/kg
Pyrene	99U	ug/kg
Dimethylphthalate	99U	ug/kg
Dibenzofuran	99U	ug/kg
Benzo(ghi)perylene	99U	ug/kg
Indeno(1,2,3-cd)pyrene	99U	ug/kg
Benzo(b)fluoranthene	99U	ug/kg
Fluoranthene	4J*	ug/kg
Benzo(k)fluoranthene	99U	ug/kg
Acenaphthylene	99U	ug/kg
Chrysene	99U	ug/kg
Retene	99U	ug/kg
4,6-Dinitro-2-methylph+	1300UJ	ug/kg
1,3-Dichlorobenzene	99U	ug/kg
2,6-Dinitrotoluene	250U	ug/kg
N-Nitroso-di-n-Propyla+	99U	ug/kg
4-Chlorophenyl-phenyle+	99UJ	ug/kg
BIS(2OCHLOROISOPROPYL)+	99U	ug/kg
Surrog: 2-Fluorobiphen+	60	% Recov
Surrog: 2-Fluorophenol	12	% Recov
Surrog: D14-Terphenyl	78	% Recov
PYRENE-D10 (SS)	75	% Recov
Surrog: D5-Nitrobenzene	52	% Recov
Surrog: D5-Phenol	18	% Recov

Tent Ident - B/N/Aci Blank #2	Sediment Result	Units
UNKNOWN COMPOUND	420NJ*	ug/kg
ETHANE, 1,1,2,2-TETRAC+	110NJ*	ug/kg
4-HYDROXY-4-METHYLPENT+	4500NJ*	ug/kg
3-PENTEN-2-ONE, 4-METH+	6600NJ*	ug/kg
2,5-HEPTADIEN-4-ONE, 2+	89NJ*	ug/kg
HEXANEDIOIC ACID, MONO+	66NJ*	ug/kg
UNKNOWN COMPOUND 1	790NJ*	ug/kg
UNKNOWN COMPOUND 2	31NJ*	ug/kg
1,3-DIOXOLANE-2-PROPAN+	350NJ*	ug/kg

Pest/PCB - PP Scan Blank #2	Sediment Result	Units
4,4'-DDT	NAF	ug/kg
Chlordane (Tech)	NAF	ug/kg
gamma-BHC (Lindane)	NAF	ug/kg
Dieldrin	NAF	ug/kg
Endrin	NAF	ug/kg
Methoxychlor	NAF	ug/kg
4,4'-DDD	NAF	ug/kg
4,4'-DDE	NAF	ug/kg
Heptachlor	NAF	ug/kg
Aldrin	NAF	ug/kg
alpha-BHC	NAF	ug/kg
beta-BHC	NAF	ug/kg
delta-BHC	NAF	ug/kg
Endosulfan I	NAF	ug/kg
Heptachlor Epoxide	NAF	ug/kg
Endosulfan sulfate	NAF	ug/kg
Endrin aldehyde	NAF	ug/kg
Toxaphene	NAF	ug/kg
PCB - 1260	NAF	ug/kg
PCB - 1254	NAF	ug/kg
PCB - 1221	NAF	ug/kg
PCB - 1232	NAF	ug/kg
PCB - 1248	NAF	ug/kg
PCB - 1016	NAF	ug/kg
Endosulfan II	NAF	ug/kg
PCB - 1242	NAF	ug/kg
Endrin Ketone	NAF	ug/kg
Surrog: 2,4,6-Tribromo+	126	% Recov
DIBUTYLCHLORENDATE (SS)	57	% Recov
DECACHLOROBIPHENYL	76	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Blank ID: BS2247

VOA - PP Scan (GCMS) Blank #2	Sediment Result	Units
Carbon Tetrachloride	2UJ	ug/kg
Acetone	2J*	ug/kg
Chloroform	2UJ	ug/kg
Benzene	2U	ug/kg
1,1,1-Trichloroethane	2UJ	ug/kg
Bromomethane	2U	ug/kg
Chloromethane	0.04J*	ug/kg
Dibromomethane	2U	ug/kg
Bromochloromethane	2U	ug/kg
Chloroethane	2UJ	ug/kg
Vinyl Chloride	2UJ	ug/kg
Methylene Chloride	0.2J*	ug/kg
Carbon Disulfide	10U	ug/kg
Bromoform	2U	ug/kg
Bromodichloromethane	2UJ	ug/kg
1,1-Dichloroethane	2U	ug/kg
1,1-Dichloroethene	2U	ug/kg
Trichlorofluoromethane	2UJ	ug/kg
Methane, Dichlorodiflu+	10UJ	ug/kg
1,2-Dichloropropane	2U	ug/kg
2-Butanone	0.3J*	ug/kg
1,1,2-Trichloroethane	2U	ug/kg
Ethene, trichloro-	2U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	2U	ug/kg
1,2,3-Trichlorobenzene	2U	ug/kg
Hexachlorobutadiene	2U	ug/kg
Naphthalene	0.2J*	ug/kg
2-Chlorotoluene	2U	ug/kg
1,2-Dichlorobenzene	2U	ug/kg
1,2,4-Trimethylbenzene	2U	ug/kg
1,2-Dibromo-3-chloropr+	10U	ug/kg
1,2,3-Trichloropropane	2U	ug/kg
Tert-Butylbenzene	2U	ug/kg
Isopropylbenzene (Cume+	2U	ug/kg
p-Isopropyltoluene	2U	ug/kg
Ethylbenzene	2U	ug/kg
BENZENE, ETHENYL-(STYR+	2U	ug/kg
BENZENE, PROPYL-	2U	ug/kg
Butylbenzene	0.04J*	ug/kg
4-Chlorotoluene	2U	ug/kg
1,4-Dichlorobenzene	2U	ug/kg
1,2-Dibromoethane (EDB)	2U	ug/kg
1,2-Dichloroethane	2UJ	ug/kg
4-Methyl-2-Pentanone(M+	2U	ug/kg
1,3,5-Trimethylbenzene	2U	ug/kg

VOA - PP Scan (GCMS) *** Continued *** Blank #2	Sediment Result	Units
Bromobenzene	2U	ug/kg
Toluene	0.1J*	ug/kg
Chlorobenzene	2U	ug/kg
1,2,4-Trichlorobenzene	2U	ug/kg
Dibromochloromethane	2U	ug/kg
Tetrachloroethene	2U	ug/kg
Sec-Butylbenzene	2U	ug/kg
1,3-Dichloropropane	2U	ug/kg
Cis-1,2-Dichloroethene	2U	ug/kg
trans-1,2-Dichloroethe+	2U	ug/kg
1,3-Dichlorobenzene	2U	ug/kg
1,1-Dichloropropene	2UJ	ug/kg
2-Hexanone	2U	ug/kg
2,2-Dichloropropane	2UJ	ug/kg
Ethene, 1,1,1,2-Tetrac+	2U	ug/kg
Total Xylenes	2U	ug/kg
cis-1,3-Dichloropropene	2U	ug/kg
trans-1,3-Dichloroprop+	2U	ug/kg
p-Bromofluorobenzene	95	% Recov
FLUOROBENZENE	98	% Recov
d8-Toluene	100	% Recov
d4-1,2-Dichlorobenzene+	107	% Recov
1,2-Dichloroethane-d4 +	104	% Recov

B/N/Acid Scan Blank #3	Sediment Result	Units
Benzo(a)pyrene	120U	ug/kg
2,4-Dinitrophenol	1600UJ	ug/kg
Dibenzo(a,h)anthracene	310U	ug/kg
Benzo(a)anthracene	120U	ug/kg
4-Chloro-3-Methylphenol	630UJ	ug/kg
Benzoic acid	1600UJ	ug/kg
Hexachloroethane	120U	ug/kg
Hexachlorocyclopentadi+	630U	ug/kg
Isophorone	120U	ug/kg
Acenapbthene	120U	ug/kg
Diethylphthalate	6J*	ug/kg
Di-n-Butylphthalate	270 *	ug/kg
Phenanthrene	120U	ug/kg
Butylbenzylphthalate	11J*	ug/kg
N-Nitrosodiphenylamine	1600U	ug/kg
Fluorene	120U	ug/kg

B/N/Acid Scan *** Continued *** Blank #3	Sediment Result	Units
Carbazole	630UJ	ug/kg
Hexachlorobutadiene	310U	ug/kg
Pentachlorophenol	630UJ	ug/kg
2,4,6-Trichlorophenol	310UJ	ug/kg
2-Nitroaniline	310U	ug/kg
2-Nitrophenol	310U	ug/kg
Naphthalene, 1-Methyl-	120U	ug/kg
Naphthalene	120U	ug/kg
2-Methylnaphthalene	120U	ug/kg
2-Chloronaphthalene	120U	ug/kg
3,3'-Dichlorobenzidine	3100UJ	ug/kg
2-Methylphenol	120UJ	ug/kg
1,2-Dichlorobenzene	120U	ug/kg
o-Chlorophenol (2-Chlo+	120UJ	ug/kg
2,4,5-Trichlorophenol	620UJ	ug/kg
Nitrobenzene	120UJ	ug/kg
3-Nitroaniline	1600UJ	ug/kg
4-Nitroaniline	1600U	ug/kg
4-Nitrophanol	1600UJ	ug/kg
Benzyl Alcohol	REJ	ug/kg
4-Bromophenyl-phenylet+	120U	ug/kg
2,4-Dimethylphenol	120U	ug/kg
4-Methylphenol	120UJ	ug/kg
1,4-Dichlorobenzene	120U	ug/kg
4-Chloroaniline	1600U	ug/kg
Phenol	82J*	ug/kg
bis(2-Chloroethyl)Ether	120U	ug/kg
bis(2-Chloroethoxy)Met+	120U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	820 *	ug/kg
Di-n-Octyl Phthalate	59J*	ug/kg
Hexachlorobenzene	120U	ug/kg
Anthracene	120U	ug/kg
1,2,4-Trichlorobenzene	120U	ug/kg
2,4-Dichlorophenol	120U	ug/kg
2,4-Dinitrotoluene	310U	ug/kg
Pyrene	120U	ug/kg
Dimethylphthalate	120U	ug/kg
Dibenzofuran	120U	ug/kg
Benzo(ghi)perylene	120UJ	ug/kg
Indeno(1,2,3-cd)pyrene	120U	ug/kg
Benzo(b)fluoranthene	120U	ug/kg
Fluoranthene	120U	ug/kg
Benzo(k)fluoranthene	120U	ug/kg
Acenaphthylene	120U	ug/kg

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Blank ID: BS2247

B/N/Acid Scan *** Continued ***	Sediment	
Blank #3	Result	Units
Chrysene	120U	ug/kg
Retene	120U	ug/kg
4,6-Dinitro-2-methylph+	1600UJ	ug/kg
1,3-Dichlorobenzene	120U	ug/kg
2,6-Dinitrotoluene	310U	ug/kg
N-Nitroso-di-n-Propyla+	120U	ug/kg
4-Chlorophenyl-phenyla+	120U	ug/kg
BIS(2OCHLOROISOPROPYL)+	120U	ug/kg
Surrog: 2-Fluorobiphen+	70	% Recov
Surrog: 2-Fluorophenol	49	% Recov
Surrog: D14-Terphenyl	81	% Recov
PYRENE-D10 (SS)	66	% Recov
Surrog: D5-Nitrobenzene	34	% Recov
Surrog: D5-Phenol	52	% Recov

Tent Ident - B/N/Aci	Sediment	
Blank #3	Result	Units
HEXANEDIOIC ACID, BIS(+	10000NJ*	ug/kg
Decanoic Acid, Methyl +	49NJ*	ug/kg
UNKNOWN COMPOUND 1	860NJ*	ug/kg
UNKNOWN COMPOUND 2	490NJ*	ug/kg
UNKNOWN COMPOUND 3	110NJ*	ug/kg
1,2-BENZENEDICARBOXYLI+	100NJ*	ug/kg
1,2-BENZENEDICARBOXYLI+	2400NJ*	ug/kg

Pest/PCB - PP Scan	Sediment	
Blank #1	Result	Units
4,4'-DDT	NAF	ug/kg
Chlordane (Tech)	NAF	ug/kg
gamma-BHC (Lindane)	NAF	ug/kg
Dieldrin	NAF	ug/kg
Endrin	NAF	ug/kg
Methoxychlor	NAF	ug/kg
4,4'-DDD	NAF	ug/kg
4,4'-DDE	NAF	ug/kg
Heptachlor	NAF	ug/kg
Aldrin	NAF	ug/kg
alpha-BHC	NAF	ug/kg
beta-BHC	NAF	ug/kg
delta-BHC	NAF	ug/kg

Pest/PCB - PP Scan *** Continued ***	Sediment	
Blank #1	Result	Units
Endosulfan I	NAF	ug/kg
Heptachlor Epoxide	NAF	ug/kg
Endosulfan sulfate	NAF	ug/kg
Endrin aldehyde	NAF	ug/kg
Toxaphene	NAF	ug/kg
PCB - 1260	NAF	ug/kg
PCB - 1254	NAF	ug/kg
PCB - 1221	NAF	ug/kg
PCB - 1232	NAF	ug/kg
PCB - 1248	NAF	ug/kg
PCB - 1016	NAF	ug/kg
Endosulfan II	NAF	ug/kg
PCB - 1242	NAF	ug/kg
Endrin Ketone	NAF	ug/kg
Surrog: 2,4,6-Tribromo+	106	% Recov
DIBUTYLCHLORENDATE (SS)	70	% Recov
DECACHLOROBIPHENYL	73	% Recov

(Sample Complete)

EPA Region X Lab Management System
Sample/Project Analysis Results

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FALOPUZZ

Blank ID: BS2247D

B/N/Acid Scan Blank #4	Sediment Result	Units
Benzo(a)pyrene	120U	ug/kg
2,4-Dinitrophenol	1600UJ	ug/kg
Dibenzo(a,h)anthracene	310U	ug/kg
Benzo(e)anthracene	120U	ug/kg
4-Chloro-3-Methylphenol	630UJ	ug/kg
Benzoic acid	1600UJ	ug/kg
Hexachloroethane	120U	ug/kg
Hexachlorocyclopentadi+	630U	ug/kg
Isophorone	120U	ug/kg
Acenaphthene	120U	ug/kg
Diethylphthalate	7J*	ug/kg
Di-n-Butylphthalate	910 *	ug/kg
Phenanthrene	120U	ug/kg
Butylbenzylphthalate	9J*	ug/kg
N-Nitrosodiphenylamine	1600U	ug/kg
Fluorene	120U	ug/kg
Carbazole	630UJ	ug/kg
Hexachlorobutadiene	310U	ug/kg
Pentachlorophenol	630UJ	ug/kg
2,4,6-Trichlorophenol	310UJ	ug/kg
2-Nitroaniline	310U	ug/kg
2-Nitrophenol	310U	ug/kg
Naphthalene, 1-Methyl-	120U	ug/kg
Naphthalene	120U	ug/kg
2-Methylnaphthalene	120U	ug/kg
2-Chloronaphthalene	120U	ug/kg
3,3'-Dichlorobenzidine	3100UJ	ug/kg
2-Methylphenol	120UJ	ug/kg
1,2-Dichlorobenzene	120U	ug/kg
o-Chlorophenol (2-Chlo+	120UJ	ug/kg
2,4,5-Trichlorophenol	620UJ	ug/kg
Nitrobenzene	120UJ	ug/kg
3-Nitroaniline	1600UJ	ug/kg
4-Nitroaniline	1600U	ug/kg
4-Nitrophenol	1600UJ	ug/kg
Benzyl Alcohol	REJ	ug/kg
4-Bromophenyl-phenylet+	120U	ug/kg
2,4-Dimethylphenol	120U	ug/kg
4-Methylphenol	120UJ	ug/kg
1,4-Dichlorobenzene	120U	ug/kg
4-Chloroaniline	1600U	ug/kg
Phenol	58J*	ug/kg
bis(2-Chloroethyl)Ether	120U	ug/kg
bis(2-Chloroethoxy)Met+	120U	ug/kg
BIS(2-ETHYLHEXYL) PHTH+	5200 *	ug/kg

B/N/Acid Scan *** Continued *** Blank #4	Sediment Result	Units
Di-n-Octyl Phthalate	120UJ	ug/kg
Hexachlorobenzene	120U	ug/kg
Anthracene	120U	ug/kg
1,2,4-Trichlorobenzene	120U	ug/kg
2,4-Dichlorophenol	120U	ug/kg
2,4-Dinitrotoluene	310U	ug/kg
Pyrene	120U	ug/kg
Dimethylphthalate	120U	ug/kg
Dibenzofuran	120U	ug/kg
Benzo(ghi)perylene	120UJ	ug/kg
Indeno(1,2,3-cd)pyrene	120U	ug/kg
Benzo(b)fluoranthene	120U	ug/kg
Fluoranthene	120U	ug/kg
Benzo(k)fluoranthene	120U	ug/kg
Acenaphthylene	120U	ug/kg
Chrysene	120U	ug/kg
Retene	120U	ug/kg
4,6-Dinitro-2-methylph+	1600UJ	ug/kg
1,3-Dichlorobenzene	120U	ug/kg
2,6-Dinitrotoluene	310U	ug/kg
N-Nitroso-di-n-Propyla+	120U	ug/kg
4-Chlorophenyl-phenyla+	120U	ug/kg
BIS(2OCHLOROISOPROPYL)+	120U	ug/kg
Surrog: 2-Fluorobiphen+	54	% Recov
Surrog: 2-Fluorophenol	26	% Recov
Surrog: D14-Terphenyl	78	% Recov
PYRENE-D10 (SS)	79	% Recov
Surrog: D5-Nitrobenzene	62	% Recov
Surrog: D5-Phenol	32	% Recov

Tent Ident - B/N/Aci Blank #4	Sediment Result	Units
ETHANE, 1,1,2,2-TETRAC+	290NJ*	ug/kg
HEXANEDIOIC ACID, BIS(+	1200NJ*	ug/kg
UNKNOWN COMPOUND 1	970NJ*	ug/kg
UNKNOWN COMPOUND 2	2800NJ*	ug/kg
UNKNOWN COMPOUND 3	440NJ*	ug/kg
UNKNOWN COMPOUND 4	140NJ*	ug/kg
UNKNOWN COMPOUND 5	82NJ*	ug/kg
1,2-BENZENEDICARBOXYLI+	280NJ*	ug/kg

Pest/PCB - PP Scan Blank #2	Sediment Result	Units
4,4'-DDT	NAP	ug/kg
Chlordane (Tech)	NAP	ug/kg
gamma-BHC (Lindane)	NAP	ug/kg
Dieldrin	NAP	ug/kg
Endrin	NAP	ug/kg
Methoxychlor	NAP	ug/kg
4,4'-DDD	NAP	ug/kg
4,4'-DDE	NAP	ug/kg
Heptachlor	NAP	ug/kg
Aldrin	NAP	ug/kg
alpha-BHC	NAP	ug/kg
beta-BHC	NAP	ug/kg
delta-BHC	NAP	ug/kg
Endosulfan I	NAP	ug/kg
Heptachlor Epoxide	NAP	ug/kg
Endosulfan sulfate	NAP	ug/kg
Endrin aldehyde	NAP	ug/kg
Toxaphene	NAP	ug/kg
PCB - 1260	NAP	ug/kg
PCB - 1254	NAP	ug/kg
PCB - 1221	NAP	ug/kg
PCB - 1232	NAP	ug/kg
PCB - 1248	NAP	ug/kg
PCB - 1016	NAP	ug/kg
Endosulfan II	NAP	ug/kg
PCB - 1242	NAP	ug/kg
Endrin Ketone	NAP	ug/kg
Surrog: 2,4,6-Tribromo+	104	% Recov
DIBUTYLCHLORENDATE (SS)	54	% Recov
DECACHLOROBIPHENYL	69	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Blank ID: BS2248

VOA - PP Scan (GCMS) Blank #3	Sediment Result	Units
Carbon Tetrachloride	2UJ	ug/kg
Acetone	4J*	ug/kg
Chloroform	0.08J*	ug/kg
Benzene	2U	ug/kg
1,1,1-Trichloroethane	2UJ	ug/kg
Bromomethane	2U	ug/kg
Chloromethane	0.06J*	ug/kg
Dibromomethane	2U	ug/kg
Bromochloromethane	2U	ug/kg
Chloroethane	2UJ	ug/kg
Vinyl Chloride	2UJ	ug/kg
Methylene Chloride	0.2J*	ug/kg
Carbon Disulfide	10U	ug/kg
Bromoform	2U	ug/kg
Bromodichloromethane	2UJ	ug/kg
1,1-Dichloroethane	2U	ug/kg
1,1-Dichloroethene	2U	ug/kg
Trichlorofluoromethane	2UJ	ug/kg
Methane, Dichlorodiflu+	10UJ	ug/kg
1,2-Dichloropropane	2U	ug/kg
2-Butanone	1J*	ug/kg
1,1,2-Trichloroethane	2U	ug/kg
Ethene, trichloro-	2U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	2U	ug/kg
1,2,3-Trichlorobenzene	2U	ug/kg
Hexachlorobutadiene	2U	ug/kg
Naphthalene	0.4J*	ug/kg
2-Chlorotoluene	2U	ug/kg
1,2-Dichlorobenzene	2U	ug/kg
1,2,4-Trimethylbenzene	0.05J*	ug/kg
1,2-Dibromo-3-chloropr+	10U	ug/kg
1,2,3-Trichloropropane	2U	ug/kg
Tert-Butylbenzene	2U	ug/kg
Isopropylbenzene (Cume+	2U	ug/kg
p-Isopropyltoluene	2U	ug/kg
Ethylbenzene	2U	ug/kg
BENZENE, ETHENYL-(STYR+	2U	ug/kg
BENZENE, PROPYL-	2U	ug/kg
Butylbenzene	2U	ug/kg
4-Chlorotoluene	2U	ug/kg
1,4-Dichlorobenzene	2U	ug/kg
1,2-Dibromoethane (EDB)	2U	ug/kg
1,2-Dichloroethane	2UJ	ug/kg
4-Methyl-2-Pentanone(M+	2U	ug/kg
1,3,5-Trimethylbenzene	2UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued *** Blank #3	Sediment Result	Units
Bromobenzene	2U	ug/kg
Toluene	0.08J*	ug/kg
Chlorobenzene	2U	ug/kg
1,2,4-Trichlorobenzene	2U	ug/kg
Dibromochloromethane	2U	ug/kg
Tetrachloroethene	2U	ug/kg
Sec-Butylbenzene	2U	ug/kg
1,3-Dichloropropane	2U	ug/kg
Cis-1,2-Dichloroethene	2U	ug/kg
trans-1,2-Dichloroethe+	2U	ug/kg
1,3-Dichlorobenzene	2U	ug/kg
1,1-Dichloropropene	2UJ	ug/kg
2-Hexanone	0.5J*	ug/kg
2,2-Dichloropropane	2U	ug/kg
Ethane, 1,1,1,2-Tetrac+	2U	ug/kg
Total Xylenes	2U	ug/kg
cis-1,3-Dichloropropene	2U	ug/kg
trans-1,3-Dichloroprop+	2U	ug/kg
p-Bromofluorobenzene	92	% Recov
FLUOROBENZENE	99	% Recov
d8-Toluene	95	% Recov
d4-1,2-Dichlorobenzene+	108	% Recov
1,2-Dichloroethane-d4 +	98	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: HZR Account: FA1OPUZZ

Blank ID: BW2245

VOA - PP Scan (GCMS) Blank #4	Sediment Result	Units
Carbon Tetrachloride	1U	ug/kg
Acetone	2J*	ug/kg
Chloroform	0.06J*	ug/kg
Benzene	0.03J*	ug/kg
1,1,1-Trichloroethane	1U	ug/kg
Bromomethane	1U	ug/kg
Chloromethane	0.04J*	ug/kg
Dibromomethane	1U	ug/kg
Bromochloromethane	1U	ug/kg
Chloroethane	1U	ug/kg
Vinyl Chloride	1U	ug/kg
Methylene Chloride	0.2J*	ug/kg
Carbon Disulfide	5U	ug/kg
Bromoform	1U	ug/kg
Bromodichloromethane	1U	ug/kg
1,1-Dichloroethane	1U	ug/kg
1,1-Dichloroethene	1U	ug/kg
Trichlorofluoromethane	1U	ug/kg
Methane, Dichlorodiflu+	5UJ	ug/kg
1,2-Dichloropropane	1U	ug/kg
2-Butanone	0.4J*	ug/kg
1,1,2-Trichloroethane	1U	ug/kg
Ethene, trichloro-	1U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	0.1J*	ug/kg
1,2,3-Trichlorobenzene	0.05J*	ug/kg
Hexachlorobutadiene	1UJ	ug/kg
Naphthalene	0.1J*	ug/kg
2-Chlorotoluene	1U	ug/kg
1,2-Dichlorobenzene	1U	ug/kg
1,2,4-Trimethylbenzene	1U	ug/kg
1,2-Dibromo-3-chloropr+	5UJ	ug/kg
1,2,3-Trichloropropane	1U	ug/kg
Tert-Butylbenzene	1U	ug/kg
Isopropylbenzene (Cume+	1UJ	ug/kg
p-Isopropyltoluene	1U	ug/kg
Ethylbenzene	1U	ug/kg
BENZENE, ETHENYL-(STYR+	1U	ug/kg
BENZENE, PROPYL-	1U	ug/kg
Butylbenzene	0.03J*	ug/kg
4-Chlorotoluene	1U	ug/kg
1,4-Dichlorobenzene	1U	ug/kg
1,2-Dibromoethane (EDB)	1U	ug/kg
1,2-Dichloroethene	1U	ug/kg
4-Methyl-2-Pentanone(M+	1U	ug/kg
1,3,5-Trimethylbenzene	1UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued *** Blank #4	Sediment Result	Units
Bromobenzene	1U	ug/kg
Toluene	0.05J*	ug/kg
Chlorobenzene	1U	ug/kg
1,2,4-Trichlorobenzene	0.04J*	ug/kg
Dibromochloromethane	1U	ug/kg
Tetrachloroethene	1U	ug/kg
Sec-Butylbenzene	1U	ug/kg
1,3-Dichloropropene	1U	ug/kg
Cis-1,2-Dichloroethene	1U	ug/kg
trans-1,2-Dichloroethe+	1U	ug/kg
1,3-Dichlorobenzene	1U	ug/kg
1,1-Dichloropropene	1U	ug/kg
2-Hexanone	1U	ug/kg
2,2-Dichloropropane	1U	ug/kg
Ethene, 1,1,1,2-Tetrac+	1U	ug/kg
Total Xylenes	1U	ug/kg
cis-1,3-Dichloropropene	1U	ug/kg
trans-1,3-Dichloroprop+	1U	ug/kg
p-Bromofluorobenzene	96	% Recov
FLUOROBENZENE	98	% Recov
d8-Toluene	101	% Recov
d4-1,2-Dichlorobenzene+	102	% Recov
1,2-Dichloroethane-d4 +	98	% Recov

Pest/PCB - PP Scan Blank #1	Water-Total Result	Units
4,4'-DDT	0.10U	ug/l
Chlordane (Tech)	1.0U	ug/l
gamma-BHC (Lindane)	0.10U	ug/l
Dieldrin	0.10U	ug/l
Endrin	0.10U	ug/l
Methoxychlor	0.10U	ug/l
4,4'-DDD	0.10U	ug/l
4,4'-DDE	0.10U	ug/l
Heptachlor	0.10U	ug/l
Aldrin	0.10U	ug/l
alpha-BHC	0.10U	ug/l
beta-BHC	0.10U	ug/l
delta-BHC	0.10U	ug/l
Endosulfan I	0.10U	ug/l
Heptachlor Epoxide	0.10U	ug/l
Endosulfan sulfate	0.10U	ug/l

Pest/PCB - PP Scan *** Continued *** Blank #1	Water-Total Result	Units
Endrin aldehyde	0.10U	ug/l
Toxaphene	6.0U	ug/l
PCB - 1260	1.0U	ug/l
PCB - 1254	1.0U	ug/l
PCB - 1221	1.0U	ug/l
PCB - 1232	1.0U	ug/l
PCB - 1248	1.0U	ug/l
PCB - 1016	1.0U	ug/l
Endosulfan II	0.10U	ug/l
PCB - 1242	1.0U	ug/l
Endrin Ketone	0.10U	ug/l
DIBUTYLCHLORENDATE (SS)	87	% Recov
DECACHLOROBIPHENYL	81	% Recov
4,4-Dibromooctafluorob+	70	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Blank ID: BW2245D

Past/PCB - PP Scan Blank #2	Water-Total Result	Units
4,4'-DDT	0.10U	ug/l
Chlordane (Tech)	1.0U	ug/l
gamma-BHC (Lindane)	0.10U	ug/l
Dieldrin	0.10U	ug/l
Endrin	0.10U	ug/l
Methoxychlor	0.10U	ug/l
4,4'-DDD	0.10U	ug/l
4,4'-DDE	0.10U	ug/l
Heptachlor	0.10U	ug/l
Aldrin	0.10U	ug/l
alpha-BHC	0.10U	ug/l
beta-BHC	0.10U	ug/l
delta-BHC	0.10U	ug/l
Endosulfan I	0.10U	ug/l
Heptachlor Epoxide	0.10U	ug/l
Endosulfan sulfate	0.10U	ug/l
Endrin aldehyde	0.10U	ug/l
Toxaphene	6.0U	ug/l
PCB - 1260	1.0U	ug/l
PCB - 1254	1.0U	ug/l
PCB - 1221	1.0U	ug/l
PCB - 1232	1.0U	ug/l
PCB - 1248	1.0U	ug/l
PCB - 1016	1.0U	ug/l
Endosulfan II	0.10U	ug/l
PCB - 1242	1.0U	ug/l
Endrin Ketone	0.10U	ug/l
DIBUTYLCHLORENDATE (SS)	84	% Recov
DECACHLOROBIPHENYL	84	% Recov
4,4-Dibromooctafluorob+	65	% Recov

(Sample Complete)

EPA Region X Lab Management System
Sample/Project Analysis Results

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Blank ID: BW2245D1

B/N/Acid Scan Blank #1	Water-Total Result	Units
Benzo(a)pyrene	8U	ug/l
2,4-Dinitrophenol	100UJ	ug/l
Dibenzo(a,h)anthracene	20U	ug/l
Benzo(a)anthracene	8U	ug/l
4-Chloro-3-Methylphenol	40UJ	ug/l
Benzoic acid	100UJ	ug/l
Hexachloroethene	8U	ug/l
Hexachlorocyclopentadi+	40U	ug/l
Isophorone	8U	ug/l
Acenaphthene	8U	ug/l
Diethylphthalate	8UJ	ug/l
Di-n-Butylphthalate	8UJ	ug/l
Phenanthrene	8U	ug/l
Butylbenzylphthalate	20UJ	ug/l
N-Nitrosodiphenylamine	0.6J*	ug/l
Fluorene	8U	ug/l
Carbazole	40UJ	ug/l
Hexachlorobutadiene	20U	ug/l
Pentachlorophenol	40U	ug/l
2,4,6-Trichlorophenol	20U	ug/l
2-Nitroaniline	20U	ug/l
2-Nitrophenol	20U	ug/l
Naphthalene, 1-Methyl-	8U	ug/l
Naphthalene	8U	ug/l
2-Methylnaphthalene	8U	ug/l
2-Chloronaphthalene	8U	ug/l
3,3'-Dichlorobenzidine	200U	ug/l
2-Methylphenol	8U	ug/l
1,2-Dichlorobenzene	8U	ug/l
o-Chlorophenol (2-Chlo+	8U	ug/l
2,4,5-Trichlorophenol	40U	ug/l
Nitrobenzene	8U	ug/l
3-Nitroaniline	REJ	ug/l
4-Nitroaniline	100U	ug/l
4-Nitrophenol	50U	ug/l
Benzyl Alcohol	160UJ	ug/l
4-Bromophenyl-phenylet+	8U	ug/l
2,4-Dimethylphenol	8U	ug/l
4-Methylphenol	8U	ug/l
1,4-Dichlorobenzene	8U	ug/l
4-Chloroaniline	100U	ug/l
Phenol	8U	ug/l
bis(2-Chloroethyl)Ether	8U	ug/l
bis(2-Chloroethoxy)Met+	8U	ug/l
BIS(2-ETHYLHEXYL) PHTH+	8UJ	ug/l

B/N/Acid Scan *** Continued *** Blank #1	Water-Total Result	Units
Di-n-Octyl Phthalate	8UJ	ug/l
Hexachlorobenzene	8U	ug/l
Anthracene	8U	ug/l
1,2,4-Trichlorobenzene	8U	ug/l
2,4-Dichlorophenol	8U	ug/l
2,4-Dinitrotoluene	20UJ	ug/l
Pyrene	8U	ug/l
Dimethylphthalate	8U	ug/l
Dibenzofuran	8U	ug/l
Benzo(ghi)perylene	8U	ug/l
Indeno(1,2,3-cd)pyrene	8U	ug/l
Benzo(b)fluoranthene	8U	ug/l
Fluoranthene	8U	ug/l
Benzo(k)fluoranthene	8U	ug/l
Acenaphthylene	8U	ug/l
Chrysene	8U	ug/l
Retene	8U	ug/l
4,6-Dinitro-2-methylph+	100UJ	ug/l
1,3-Dichlorobenzene	8U	ug/l
2,6-Dinitrotoluene	20U	ug/l
N-Nitroso-di-n-Propyla+	8U	ug/l
4-Chlorophenyl-phenyle+	8U	ug/l
BIS(2OCHLOROISOPROPYL)+	8U	ug/l
Surrog: 2-Fluorobiphen+	69	% Recov
Surrog: 2-Fluorophenol	81	% Recov
D4-1,2-Dichlorobenzene	26	% Recov
Surrog: D14-Terphenyl	83	% Recov
PYRENE-D10 (SS)	87	% Recov
Surrog: D5-Nitrobenzene	82	% Recov
Surrog: D5-Phenol	74	% Recov

Tent Ident - B/N/Aci Blank #1	Water-Total Result	Units
Triphenyl phosphate	1.8NJ*	ug/l

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Blank ID: BW2245D2

B/N/Acid Scan Blank #2	Water-Total Result	Units
Benzo(a)pyrene	8U	ug/l
2,4-Dinitrophenol	100UJ	ug/l
Dibenzo(a,h)anthracene	20U	ug/l
Benzo(a)anthracene	8U	ug/l
4-Chloro-3-Methylphenol	40U	ug/l
Benzoic acid	100UJ	ug/l
Hexachloroethane	8U	ug/l
Hexachlorocyclopentadi+	40U	ug/l
Isophorone	8U	ug/l
Acenaphthene	0.4J*	ug/l
Diethylphthalate	8U	ug/l
Di-n-Butylphthalate	8U	ug/l
Phenanthrene	1J*	ug/l
Butylbenzylphthalate	20U	ug/l
N-Nitrosodiphenylamine	100UJ	ug/l
Fluorene	8U	ug/l
Carbazole	40UJ	ug/l
Hexachlorobutadiene	20U	ug/l
Pentachlorophenol	40U	ug/l
2,4,6-Trichlorophenol	20U	ug/l
2-Nitroaniline	20U	ug/l
2-Nitrophenol	20U	ug/l
Naphthalene, 1-Methyl-	4J*	ug/l
Naphthalene	0.6J*	ug/l
2-Methylnaphthalene	3J*	ug/l
2-Chloronaphthalene	8U	ug/l
3,3'-Dichlorobenzidine	200U	ug/l
2-Methylphenol	8U	ug/l
1,2-Dichlorobenzene	8U	ug/l
o-Chlorophenol (2-Chlo+	8U	ug/l
2,4,5-Trichlorophenol	40U	ug/l
Nitrobenzene	8U	ug/l
3-Nitroaniline	100U	ug/l
4-Nitroaniline	100U	ug/l
4-Nitrophenol	50U	ug/l
Benzyl Alcohol	160U	ug/l
4-Bromophenyl-phenylet+	8U	ug/l
2,4-Dimethylphenol	8U	ug/l
4-Methylphenol	8U	ug/l
1,4-Dichlorobenzene	8U	ug/l
4-Chloroaniline	100U	ug/l
Phenol	8U	ug/l
bis(2-Chloroethyl)Ether	8U	ug/l
bis(2-Chloroethoxy)Met+	8U	ug/l
BIS(2-ETHYLHEXYL) PHTH+	0.9J*	ug/l

B/N/Acid Scan *** Continued *** Blank #2	Water-Total Result	Units
Di-n-Octyl Phthalate	8UJ	ug/l
Hexachlorobenzene	8U	ug/l
Anthracene	8U	ug/l
1,2,4-Trichlorobenzene	8U	ug/l
2,4-Dichlorophenol	8U	ug/l
2,4-Dinitrotoluene	20U	ug/l
Pyrene	8U	ug/l
Dimethylphthalate	8U	ug/l
Dibenzofuran	8U	ug/l
Benzo(ghi)perylene	8U	ug/l
Indeno(1,2,3-cd)pyrene	8U	ug/l
Benzo(b)fluoranthene	8U	ug/l
Fluoranthene	8U	ug/l
Benzo(k)fluoranthene	8U	ug/l
Acenaphthylene	8U	ug/l
Chrysene	8U	ug/l
Retene	8U	ug/l
4,6-Dinitro-2-methylph+	100UJ	ug/l
1,3-Dichlorobenzene	8U	ug/l
2,6-Dinitrotoluene	20U	ug/l
N-Nitroso-di-n-Propyla+	8U	ug/l
4-Chlorophenyl-phenyle+	8U	ug/l
BIS(2OCHLOROISOPROPYL)+	8U	ug/l
Surrog: 2-Fluorobiphen+	68	% Recov
Surrog: 2-Fluorophenol	80	% Recov
D4-1,2-Dichlorobenzene	29	% Recov
Surrog: D14-Terphenyl	81	% Recov
PYRENE-D10 (SS)	84	% Recov
Surrog: D5-Nitrobenzene	74	% Recov
Surrog: D5-Phenol	76	% Recov

Tent Ident - B/N/Aci Blank #2	Water-Total Result	Units
Triphenyl phosphate	3.0NJ*	ug/l
NAPHTHALENE, 1,5-DIMET+	3.6NJ*	ug/l
NAPHTHALENE, 1,2-DIMET+	5.9NJ*	ug/l
NAPHTHALENE, 1,3-DIMET+	5.4NJ*	ug/l
UNKNOWN HYDROCARBONS (+	92NJ*	ug/l
NAPHTHALENE, 1,4,5-TRI+	2.8NJ*	ug/l
NAPHTHALENE, 1,4,6-TRI+	3.4NJ*	ug/l
NAPHTHALENE, 1,6,7-TRI+	2.5NJ*	ug/l

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: PA10PUZZ

Blank ID: BW2246

VOA - PP Scan (GCMS) Blank #1	Sediment Result	Units
Carbon Tetrachloride	2UJ	ug/kg
Acetone	3J*	ug/kg
Chloroform	2UJ	ug/kg
Benzene	0.02J*	ug/kg
1,1,1-Trichloroethane	2UJ	ug/kg
Bromomethane	2U	ug/kg
Chloromethane	0.04J*	ug/kg
Dibromomethane	2U	ug/kg
Bromochloromethene	2U	ug/kg
Chloroethane	2UJ	ug/kg
Vinyl Chloride	2U	ug/kg
Methylene Chloride	0.3J*	ug/kg
Carbon Disulfide	10U	ug/kg
Bromoform	2U	ug/kg
Bromodichloromethane	2UJ	ug/kg
1,1-Dichloroethane	2UJ	ug/kg
1,1-Dichloroethene	2U	ug/kg
Trichlorofluoromethane	2UJ	ug/kg
Methane, Dichlorodiflu+	10UJ	ug/kg
1,2-Dichloropropane	2U	ug/kg
2-Butanone	1J*	ug/kg
1,1,2-Trichloroethane	2U	ug/kg
Ethene, trichloro-	2U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	2U	ug/kg
1,2,3-Trichlorobenzene	2U	ug/kg
Hexachlorobutadiene	2U	ug/kg
Naphthalene	0.2J*	ug/kg
2-Chlorotoluene	2U	ug/kg
1,2-Dichlorobenzene	2U	ug/kg
1,2,4-Trimethylbenzene	0.04J*	ug/kg
1,2-Dibromo-3-chloropr+	10U	ug/kg
1,2,3-Trichloropropane	2U	ug/kg
Tert-Butylbenzene	2U	ug/kg
Isopropylbenzene (Cume+	2U	ug/kg
p-Isopropyltoluene	2U	ug/kg
Ethylbenzene	2U	ug/kg
BENZENE, ETHENYL-(STYR+	2U	ug/kg
BENZENE, PROPYL-	2U	ug/kg
Butylbenzene	2U	ug/kg
4-Chlorotoluene	2U	ug/kg
1,4-Dichlorobenzene	2U	ug/kg
1,2-Dibromoethane (EDB)	2U	ug/kg
1,2-Dichloroethane	2UJ	ug/kg
4-Methyl-2-Pentanone(M+	2U	ug/kg
1,3,5-Trimethylbenzene	0.03J*	ug/kg

VOA - PP Scan (GCMS) *** Continued *** Blank #1	Sediment Result	Units
Bromobenzene	2U	ug/kg
Toluene	0.09J*	ug/kg
Chlorobenzene	2U	ug/kg
1,2,4-Trichlorobenzene	2U	ug/kg
Dibromochloromethane	2U	ug/kg
Tetrachloroethene	2U	ug/kg
Sec-Butylbenzene	2U	ug/kg
1,3-Dichloropropane	2U	ug/kg
Cis-1,2-Dichloroethene	2U	ug/kg
trans-1,2-Dichloroethe+	2U	ug/kg
1,3-Dichlorobenzene	2U	ug/kg
1,1-Dichloropropene	2UJ	ug/kg
2-Hexanone	2U	ug/kg
2,2-Dichloropropane	2UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	2U	ug/kg
Total Xylenes	0.02J*	ug/kg
cis-1,3-Dichloropropene	2U	ug/kg
trans-1,3-Dichloroprop+	2UJ	ug/kg
p-Bromofluorobenzene	91	% Recov
FLUOROBENZENE	101	% Recov
d8-Toluene	99	% Recov
d4-1,2-Dichlorobenzene+	110	% Recov
1,2-Dichloroethane-d4 +	95	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Blank ID: BW2247

VOA - PP Scan (GCMS) Blank #1	Water-Total Result	Units
Carbon Tetrachloride	1U	ug/l
Acetone	1J*	ug/l
Chloroform	1U	ug/l
Benzene	1U	ug/l
1,1,1-Trichloroethane	1U	ug/l
Bromomethane	1U	ug/l
Chloromethane	1UJ	ug/l
Dibromomethane	1U	ug/l
Bromochloromethane	1U	ug/l
Chloroethane	1U	ug/l
Vinyl Chloride	1U	ug/l
Methylene Chloride	0.2J*	ug/l
Carbon Disulfide	0.1J*	ug/l
Bromoform	1U	ug/l
Bromodichloromethane	1U	ug/l
1,1-Dichloroethane	1U	ug/l
1,1-Dichloroethene	1U	ug/l
Trichlorofluoromethane	1U	ug/l
Methane, Dichlorodiflu+	5U	ug/l
1,2-Dichloropropane	1U	ug/l
2-Butanone	5U	ug/l
1,1,2-Trichloroethane	1U	ug/l
Ethane, trichloro-	1U	ug/l
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l
1,2,3-Trichlorobenzene	0.5J*	ug/l
Hexachlorobutadiene	0.2J*	ug/l
Naphthalene	1U	ug/l
2-Chlorotoluene	1U	ug/l
1,2-Dichlorobenzene	1U	ug/l
1,2,4-Trimethylbenzene	1U	ug/l
1,2-Dibromo-3-chloropr+	5U	ug/l
1,2,3-Trichloropropane	1U	ug/l
Tert-Butylbenzene	1U	ug/l
Isopropylbenzene (Cume+	1U	ug/l
p-Isopropyltoluene	1U	ug/l
Ethylbenzene	1U	ug/l
BENZENE, ETHENYL-(STYR+	1U	ug/l
BENZENE, PROPYL-	1U	ug/l
Butylbenzene	1U	ug/l
4-Chlorotoluene	1U	ug/l
1,4-Dichlorobenzene	1U	ug/l
1,2-Dibromoethane (EDB)	1U	ug/l
1,2-Dichloroethane	1U	ug/l
4-Methyl-2-Pentanone(M+	1U	ug/l
1,3,5-Trimethylbenzene	1U	ug/l

VOA - PP Scan (GCMS) *** Continued *** Blank #1	Water-Total Result	Units
Bromobenzene	1U	ug/l
Toluene	0.09J*	ug/l
Chlorobenzene	1U	ug/l
1,2,4-Trichlorobenzene	0.3J*	ug/l
Dibromochloromethane	1U	ug/l
Tetrachloroethene	1U	ug/l
Sec-Butylbenzene	1U	ug/l
1,3-Dichloropropane	1U	ug/l
Cis-1,2-Dichloroethene	1U	ug/l
trans-1,2-Dichloroethe+	1U	ug/l
1,3-Dichlorobenzene	1U	ug/l
1,1-Dichloropropene	1U	ug/l
2-Hexanone	1U	ug/l
2,2-Dichloropropane	1U	ug/l
Ethane, 1,1,1,2-Tetrac+	1U	ug/l
Total Xylenes	1U	ug/l
cis-1,3-Dichloropropene	1U	ug/l
trans-1,3-Dichloroprop+	1U	ug/l
p-Bromofluorobenzene	97	% Recov
D4-1,2-Dichlorobenzene	100	% Recov
d8-Toluene	100	% Recov
d4-1,2-Dichloroethane	102	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: M2R Account: FA10PUZZ

Blank ID: ES920911A

Metals - Specified Blank #1		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Blank ID: ES920916A

Metals - Specified Blank #2		Sediment Result	Units
Selenium	Se-Sedmt	0.20U	mg/kg-dr
Thallium	Tl-Sedmt	0.25UN	mg/kg-dr

Metals - ICP Scan Blank #1		Sediment Result	Units
Calcium	Ca-Sedmt	55.8 *	mg/kg-dr
Mgnsium	Mg-Sedmt	3.04 *	mg/kg-dr
Sodium	Na-Sedmt	92.8 *	mg/kg-dr
Potssium	K -Sedmt	40.U	mg/kg-dr
Arsenic	As-Sedmt	3.0U	mg/kg-dr
Barium	Ba-Sedmt	0.17P*	mg/kg-dr
Berylium	Be-Sedmt	0.10U	mg/kg-dr
Cadmium	Cd-Sedmt	0.20U	mg/kg-dr
Chromium	Cr-Sedmt	0.50U	mg/kg-dr
Cobalt	Co-Sedmt	0.30U	mg/kg-dr
Copper	Cu-Sedmt	1.10 *	mg/kg-dr
Lead	Pb-Sedmt	2.0U	mg/kg-dr
Mangnese	Mn-Sedmt	0.10U	mg/kg-dr
Nickel	Ni-Sedmt	1.0U	mg/kg-dr
Silver	Ag-Sedmt	0.30U	mg/kg-dr
Vanadium	V -Sedmt	0.20U	mg/kg-dr
Zinc	Zn-Sedmt	0.68P*	mg/kg-dr
Antimony	Sb-Sedmt	3.0U	mg/kg-dr
Aluminum	Al-Sedmt	2.0U	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	2.43 *	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU2Z

Blank ID: ES9209168

Metals - Blank #2	ICP Scan	Sediment Result	Units
Calcium	Ca-Sedmt	1.21 *	mg/kg-dr
Mgnsium	Mg-Sedmt	0.24P*	mg/kg-dr
Sodium	Na-Sedmt	1.0U	mg/kg-dr
Potassium	K -Sedmt	40.U	mg/kg-dr
Arsenic	As-Sedmt	3.0U	mg/kg-dr
Barium	Ba-Sedmt	0.10U	mg/kg-dr
Beryllium	Be-Sedmt	0.10U	mg/kg-dr
Cadmium	Cd-Sedmt	0.20U	mg/kg-dr
Chromium	Cr-Sedmt	0.79P*	mg/kg-dr
Cobalt	Co-Sedmt	0.30U	mg/kg-dr
Copper	Cu-Sedmt	0.44P*	mg/kg-dr
Lead	Pb-Sedmt	2.0U	mg/kg-dr
Mangnese	Mn-Sedmt	0.10U	mg/kg-dr
Nickel	Ni-Sedmt	1.0U	mg/kg-dr
Silver	Ag-Sedmt	0.30U	mg/kg-dr
Vanadium	V -Sedmt	0.20U	mg/kg-dr
Zinc	Zn-Sedmt	0.40U	mg/kg-dr
Antimony	Sb-Sedmt	3.0U	mg/kg-dr
Aluminum	Al-Sedmt	2.0U	mg/kg-dr
Selenium	Se-Sedmt	NAR	mg/kg-dr
Iron	Fe-Sedmt	1.7P*	mg/kg-dr
Thallium	Tl-Sedmt	NAR	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU22

Blank ID: ES920923

Metals - ICP Scan Blank #1		Sediment Result	Units
Calcium	Ca-Sedmt	86.0 *	mg/kg-dr
Mgnsium	Mg-Sedmt	5.20 *	mg/kg-dr
Sodium	Na-Sedmt	205 *	mg/kg-dr
Potssium	K -Sedmt	40.U	mg/kg-dr
Arsenic	As-Sedmt	3.0U	mg/kg-dr
Barium	Ba-Sedmt	0.14P*	mg/kg-dr
Beryllium	Be-Sedmt	0.10U	mg/kg-dr
Cadmium	Cd-Sedmt	0.20U	mg/kg-dr
Chromium	Cr-Sedmt	0.50U	mg/kg-dr
Cobalt	Co-Sedmt	0.30U	mg/kg-dr
Copper	Cu-Sedmt	1.80 *	mg/kg-dr
Lead	Pb-Sedmt	2.0U	mg/kg-dr
Mangnsse	Mn-Sedmt	0.10U	mg/kg-dr
Nickel	Ni-Sedmt	1.0P*	mg/kg-dr
Silver	Ag-Sedmt	0.30U	mg/kg-dr
Vanadium	V -Sedmt	0.20U	mg/kg-dr
Zinc	Zn-Sedmt	0.84P*	mg/kg-dr
Antimony	Sb-Sedmt	3.0U	mg/kg-dr
Aluminum	Al-Sedmt	2.0U	mg/kg-dr
Selenium	Se-Sedmt	5.0U	mg/kg-dr
Iron	Fe-Sedmt	2.86 *	mg/kg-dr
Thallium	Tl-Sedmt	5.0U	mg/kg-dr

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Blank ID: ESB920901

Metals - Blank #2	ICP Scan	Water-Total Result	Units
Arsenic	As-Total	96.1	ug/l
Barium	Ba-Total	97.9	ug/l
Beryllium	Be-Total	111.5	ug/l
Cadmium	Cd-Total	103.2	ug/l
Chromium	Cr-Total	98.7	ug/l
Cobalt	Co-Total	99.0	ug/l
Copper	Cu-Total	104.4	ug/l
Iron	Fe-Total	98.0	ug/l
Lead	Pb-Total	99.5	ug/l
Mangnese	Mn-Total	99.9	ug/l
Nickel	Ni-Total	100.9	ug/l
Silver	Ag-Total	93.4	ug/l
Vanadium	V -Total	97.8	ug/l
Zinc	Zn-Total	105.4	ug/l
Antimony	Sb-Total	96.7	ug/l
Aluminum	Al-Total	104.4	ug/l
Calcium	Ca-Total	NAF	ug/l
Mgnsium	Mg-Total	NAF	ug/l
Potssium	K -Total	NAF	ug/l
Sodium	Na-Total	NAF	ug/l

(Sample Complete)

EPA Region X Lab Management System
Sample/Project Analysis Results

Project: TE&-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Blank ID: EW920901

Metals - Specified Blank #1		Water-Total Result	Units
Arsenic	As-Total	1.5U	ug/l
Lead	Pb-Total	1.0U	ug/l
Thallium	Tl-Total	2.5U	ug/l
Selenium	Se-Total	2.0UW	ug/l

Metals - ICP Scan Blank #1		Water-Total Result	Units
Arsenic	As-Total	31.U	ug/l
Barium	Ba-Total	1.0U	ug/l
Berylium	Be-Total	1.0U	ug/l
Cadmium	Cd-Total	2.0U	ug/l
Chromium	Cr-Total	5.1U	ug/l
Cobalt	Co-Total	3.1U	ug/l
Copper	Cu-Total	3.1U	ug/l
Iron	Fe-Total	5.1U	ug/l
Lead	Pb-Total	20.U	ug/l
Mangnese	Mn-Total	1.0U	ug/l
Nickel	Ni-Total	10.U	ug/l
Silver	Ag-Total	3.1U	ug/l
Vanadium	V -Total	2.0U	ug/l
Zinc	Zn-Total	4.2P*	ug/l
Antimony	Sb-Total	31.U	ug/l
Aluminum	Al-Total	36.P*	ug/l
Calcium	Ca-Total	13.2 *	ug/l
Mgnsium	Mg-Total	3.1P*	ug/l
Potasium	K -Total	600P*	ug/l
Sodium	Na-Total	99.7 *	ug/l

(Sample Complete)

DEC 1,92
4:28:37

EPA Region X Lab Management System
Sample/Project Analysis Results

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352358 Description: ORS01 Source: Sludge (Waste Pond)

Begin Date: 92/08/25 12:00

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	110UJ	ug/kg
Acetone	330U	ug/kg
Chloroform	110UJ	ug/kg
Benzene	110U	ug/kg
1,1,1-Trichloroethane	110UJ	ug/kg
Bromomethane	110U	ug/kg
Chloromethane	110UJ	ug/kg
Dibromomethane	110U	ug/kg
Bromochloromethane	110U	ug/kg
Chloroethane	110UJ	ug/kg
Vinyl Chloride	110U	ug/kg
Methylene Chloride	110U	ug/kg
Carbon Disulfide	560U	ug/kg
Bromoform	110U	ug/kg
Bromodichloromethane	110UJ	ug/kg
1,1-Dichloroethane	110UJ	ug/kg
1,1-Dichloroethene	110U	ug/kg
Trichlorofluoromethane	110UJ	ug/kg
Methane, Dichlorodiflu+	560UJ	ug/kg
1,2-Dichloropropane	110U	ug/kg
2-Butanone	560U	ug/kg
1,1,2-Trichloroethane	110U	ug/kg
Ethene, trichloro-	110U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	110U	ug/kg
1,2,3-Trichlorobenzene	110U	ug/kg
Hexachlorobutadiene	110U	ug/kg
Naphthalene	110U	ug/kg
2-Chlorotoluene	110U	ug/kg
1,2-Dichlorobenzene	110U	ug/kg
1,2,4-Trimethylbenzene	110U	ug/kg
1,2-Dibromo-3-chloropr+	560U	ug/kg
1,2,3-Trichloropropane	110U	ug/kg
Tert-Butylbenzene	110U	ug/kg
Isopropylbenzene (Cume+	110U	ug/kg
p-Isopropyltoluene	110U	ug/kg
Ethylbenzene	110U	ug/kg
BENZENE, ETHENYL-(STYR+	110U	ug/kg
BENZENE, PROPYL-	110U	ug/kg
Butylbenzene	110U	ug/kg
4-Chlorotoluene	110U	ug/kg
1,4-Dichlorobenzene	110U	ug/kg
1,2-Dibromoethane (EDB)	110U	ug/kg
1,2-Dichloroethane	110UJ	ug/kg
4-Methyl-2-Pentanone(M+	110U	ug/kg
1,3,5-Trimethylbenzene	110UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Bromobenzene	110U	ug/kg
Toluene	110U	ug/kg
Chlorobenzene	110U	ug/kg
1,2,4-Trichlorobenzene	110U	ug/kg
Dibromochloromethane	110U	ug/kg
Tetrachloroethene	110U	ug/kg
Sec-Butylbenzene	110U	ug/kg
1,3-Dichloropropane	110U	ug/kg
Cis-1,2-Dichloroethene	110U	ug/kg
trans-1,2-Dichloroethe+	110U	ug/kg
1,3-Dichlorobenzene	110U	ug/kg
1,1-Dichloropropene	110UJ	ug/kg
2-Hexanone	110U	ug/kg
2,2-Dichloropropane	110UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	110U	ug/kg
Total Xylenes	7J*	ug/kg
cis-1,3-Dichloropropene	110U	ug/kg
trans-1,3-Dichloroprop+	110UJ	ug/kg
p-Bromofluorobenzene	104	% Recov
FLUOROBENZENE	100	% Recov
d8-Toluene	96	% Recov
d4-1,2-Dichlorobenzene+	111	% Recov
1,2-Dichloroethane-d4 +	97	% Recov

Tent Idant - VOA Sca	Sediment Result	Units
UNKNOWNS (TOTAL)	2700NJ*	ug/kg
UNKNOWN HYDROCARBONS (+	2900NJ*	ug/kg
UNKNOWN BENZENES (TOTA+	11000NJ*	ug/kg
BENZENE, 1-ETHYL-4-(1-+	10000NJ*	ug/kg
1H-INDENE, 2,3-DIHYDRO+	25000NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352359 Description: ORS02 Source: Sludge (Waste Pond)

Begin Date: 92/08/25 12:00

VOA - PP Scan (GCMS)	Sediment Result	Sediment Units
Carbon Tetrachloride	120UJ	ug/kg
Acetone	600U	ug/kg
Chloroform	120UJ	ug/kg
Benzene	120U	ug/kg
1,1,1-Trichloroethane	120UJ	ug/kg
Bromomethane	120U	ug/kg
Chloromethane	120UJ	ug/kg
Dibromomethane	120U	ug/kg
Bromochloromethane	120U	ug/kg
Chloroethane	120UJ	ug/kg
Vinyl Chloride	120U	ug/kg
Methylene Chloride	17J*	ug/kg
Carbon Disulfide	600U	ug/kg
Bromoform	120U	ug/kg
Bromodichloromethane	120UJ	ug/kg
1,1-Dichloroethene	120UJ	ug/kg
1,1-Dichloroethene	120U	ug/kg
Trichlorofluoromethane	120UJ	ug/kg
Methane, Dichlorodiflu+	600UJ	ug/kg
1,2-Dichloropropane	120U	ug/kg
2-Butanone	600U	ug/kg
1,1,2-Trichloroethane	120U	ug/kg
Ethene, trichloro-	120U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	120U	ug/kg
1,2,3-Trichlorobenzene	120U	ug/kg
Hexachlorobutadiene	120U	ug/kg
Naphthalene	120U	ug/kg
2-Chlorotoluene	120U	ug/kg
1,2-Dichlorobenzene	120U	ug/kg
1,2,4-Trimethylbenzene	120U	ug/kg
1,2-Dibromo-3-chloropt+	600U	ug/kg
1,2,3-Trichloropropane	120U	ug/kg
Tert-Butylbenzene	120U	ug/kg
Isopropylbenzene (Cume+	120U	ug/kg
p-Isopropyltoluene	120U	ug/kg
Ethylbenzene	120U	ug/kg
BENZENE, ETHENYL-(STYR+	120U	ug/kg
BENZENE, PROPYL-	120U	ug/kg
Butylbenzene	120U	ug/kg
4-Chlorotoluene	120U	ug/kg
1,4-Dichlorobenzene	120U	ug/kg
1,2-Dibromoethane (EDB)	120U	ug/kg
1,2-Dichloroethane	120UJ	ug/kg
4-Methyl-2-Pentanone(M+	120U	ug/kg
1,3,5-Trimethylbenzene	120UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Sediment Units
Bromobenzene	120U	ug/kg
Toluene	120U	ug/kg
Chlorobenzene	120U	ug/kg
1,2,4-Trichlorobenzene	120U	ug/kg
Dibromochloromethane	120U	ug/kg
Tetrachloroethene	120U	ug/kg
Sec-Butylbenzene	120U	ug/kg
1,3-Dichloropropane	120U	ug/kg
Cis-1,2-Dichloroethene	120U	ug/kg
trans-1,2-Dichloroethe+	120U	ug/kg
1,3-Dichlorobenzene	120U	ug/kg
1,1-Dichloropropene	120UJ	ug/kg
2-Hexanone	120U	ug/kg
2,2-Dichloropropane	120UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	120U	ug/kg
Total Xylenes	4J*	ug/kg
cis-1,3-Dichloropropene	120U	ug/kg
trans-1,3-Dichloroprop+	120UJ	ug/kg
p-Bromofluorobenzene	105	% Recov
FLUOROBENZENE	102	% Recov
d8-Toluene	95	% Recov
d4-1,2-Dichlorobenzene+	106	% Recov
1,2-Dichloroethane-d4 +	96	% Recov

Tent Ident - VOA Sca	Sediment Result	Sediment Units
UNKNOWNS (TOTAL)	1000NJ*	ug/kg
UNKNOWN HYDROCARBONS (+	2400NJ*	ug/kg
UNKNOWN BENZENES (TOTA+	3400NJ*	ug/kg
BENZENE, 1-(1,1-DIMETH+	1300NJ*	ug/kg
1H-INDENE, 2,3-DIHYDRO+	2100NJ*	ug/kg
BENZENE, 1-(1-METHYLET+	1700NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352360 Description: SS001 Source: Sediment (General)

Begin Date: 92/08/25 12:30

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	2U	ug/kg
Acetone	10UJ	ug/kg
Chloroform	2U	ug/kg
Benzene	2U	ug/kg
1,1,1-Trichloroethane	2U	ug/kg
Bromomethane	2U	ug/kg
Chloromethane	2U	ug/kg
Dibromomethane	2U	ug/kg
Bromochloromethane	2U	ug/kg
Chloroethane	2U	ug/kg
Vinyl Chloride	2U	ug/kg
Methylene Chloride	12U	ug/kg
Carbon Disulfide	12U	ug/kg
Bromoform	2U	ug/kg
Bromodichloromethane	2U	ug/kg
1,1-Dichloroethane	2U	ug/kg
1,1-Dichloroethene	2U	ug/kg
Trichlorofluoromethane	2U	ug/kg
Methane, Dichlorodiflu+	12UJ	ug/kg
1,2-Dichloropropane	2U	ug/kg
2-Butanone	3U	ug/kg
1,1,2-Trichloroethane	2U	ug/kg
Ethene, trichloro-	2U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	2U	ug/kg
1,2,3-Trichlorobenzene	2U	ug/kg
Hexachlorobutadiene	2UJ	ug/kg
Naphthalene	2U	ug/kg
2-Chlorotoluene	2U	ug/kg
1,2-Dichlorobenzene	2U	ug/kg
1,2,4-Trimethylbenzene	2UJ	ug/kg
1,2-Dibromo-3-chloropr+	12UJ	ug/kg
1,2,3-Trichloropropane	2U	ug/kg
Tert-Butylbenzene	2U	ug/kg
Isopropylbenzene (Cume+	2U	ug/kg
p-Isopropyltoluene	2UJ	ug/kg
Ethylbenzene	2U	ug/kg
BENZENE, ETHENYL-(STYR+	2U	ug/kg
BENZENE, PROPYL-	2U	ug/kg
Butylbenzene	2UJ	ug/kg
4-Chlorotoluene	2U	ug/kg
1,4-Dichlorobenzene	2U	ug/kg
1,2-Dibromoethane (EDB)	2U	ug/kg
1,2-Dichloroethane	2U	ug/kg
4-Methyl-2-Pentanone(M+	2U	ug/kg
1,3,5-Trimethylbenzene	2UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Bromobenzene	2U	ug/kg
Toluene	2U	ug/kg
Chlorobenzene	2U	ug/kg
1,2,4-Trichlorobenzene	2U	ug/kg
Dibromochloromethane	2U	ug/kg
Tetrachloroethene	2U	ug/kg
Sec-Butylbenzene	2UJ	ug/kg
1,3-Dichloropropane	2U	ug/kg
Cis-1,2-Dichloroethene	2U	ug/kg
trans-1,2-Dichloroetha+	2U	ug/kg
1,3-Dichlorobenzene	2U	ug/kg
1,1-Dichloropropene	2U	ug/kg
2-Hexanone	2U	ug/kg
2,2-Dichloropropane	2U	ug/kg
Ethane, 1,1,1,2-Tetrac+	2U	ug/kg
Total Xylenes	2U	ug/kg
cis-1,3-Dichloropropene	2U	ug/kg
trans-1,3-Dichloroprop+	2U	ug/kg
p-Bromofluorobenzene	92	% Recov
FLUOROBENZENE	98	% Recov
d8-Toluene	101	% Recov
d4-1,2-Dichlorobenzene+	102	% Recov
1,2-Dichloroethane-d4 +	134	% Recov

Tent Ident - VOA Sca	Sediment Result	Units
DISULFIDE, DIMETHYL	0.62NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPU2Z

Laboratory: EPA, Manchester

Sample No: 92 352361 Description: SS002 Source: Sediment (General)

Begin Date: 92/08/25 11:00

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	2U	ug/kg
Acetone	38U	ug/kg
Chloroform	2U	ug/kg
Benzene	2U	ug/kg
1,1,1-Trichloroethane	2U	ug/kg
Bromomethane	2U	ug/kg
Chloromethane	2U	ug/kg
Dibromomethane	2U	ug/kg
Bromochloromethane	2U	ug/kg
Chloroethane	2U	ug/kg
Vinyl Chloride	2U	ug/kg
Methylene Chloride	11U	ug/kg
Carbon Disulfide	11U	ug/kg
Bromoform	2UJ	ug/kg
Bromodichloromethane	2U	ug/kg
1,1-Dichloroethane	2U	ug/kg
1,1-Dichloroethene	2U	ug/kg
Trichlorofluoromethane	2U	ug/kg
Methane, Dichlorodiflu+	11UJ	ug/kg
1,2-Dichloropropane	2U	ug/kg
2-Butanone	7U	ug/kg
1,1,2-Trichloroethane	2U	ug/kg
Ethene, trichloro-	2U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	2U	ug/kg
1,2,3-Trichlorobenzene	2UJ	ug/kg
Hexachlorobutadiene	2UJ	ug/kg
Naphthalene	2UJ	ug/kg
2-Chlorotoluene	2UJ	ug/kg
1,2-Dichlorobenzene	2UJ	ug/kg
1,2,4-Trimethylbenzene	2UJ	ug/kg
1,2-Dibromo-3-chloropr+	11UJ	ug/kg
1,2,3-Trichloropropane	2UJ	ug/kg
Tert-Butylbenzene	2UJ	ug/kg
Isopropylbenzene (Cume+	2UJ	ug/kg
p-Isopropyltoluene	7J*	ug/kg
Ethylbenzene	2U	ug/kg
BENZENE, ETHENYL-(STYR+	2U	ug/kg
BENZENE, PROPYL-	2UJ	ug/kg
Butylbenzene	2UJ	ug/kg
4-Chlorotoluene	2UJ	ug/kg
1,4-Dichlorobenzene	2UJ	ug/kg
1,2-Dibromoethane (EDB)	2U	ug/kg
1,2-Dichloroethane	2U	ug/kg
4-Methyl-2-Pentanone(M+	2U	ug/kg
1,3,5-Trimethylbenzene	2UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Bromobenzene	2UJ	ug/kg
Toluene	0.2J*	ug/kg
Chlorobenzene	2U	ug/kg
1,2,4-Trichlorobenzene	2UJ	ug/kg
Dibromochloromethane	2U	ug/kg
Tetrachloroethane	2U	ug/kg
Sec-Butylbenzene	2UJ	ug/kg
1,3-Dichloropropane	2U	ug/kg
Cis-1,2-Dichloroethene	2U	ug/kg
trans-1,2-Dichloroethe+	2U	ug/kg
1,3-Dichlorobenzene	2UJ	ug/kg
1,1-Dichloropropene	2U	ug/kg
2-Hexanone	2U	ug/kg
2,2-Dichloropropane	2U	ug/kg
Ethene, 1,1,1,2-Tetrac+	2U	ug/kg
Total Xylenes	2UJ	ug/kg
cis-1,3-Dichloropropene	2U	ug/kg
trans-1,3-Dichloroprop+	2U	ug/kg
p-Bromofluorobenzene	86	% Recov
FLUOROBENZENE	98	% Recov
d8-Toluene	111	% Recov
d4-1,2-Dichlorobenzene+	102	% Recov
1,2-Dichloroethane-d4 +	142	% Recov

Tent Ident - VOA Sca	Sediment Result	Units
UNKNOWNS (TOTAL)	500J*	ug/kg
UNKNOWN HYDROCARBONS (+	1700J*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU2Z

Laboratory: EPA, Manchester

Sample No: 92 352362 Description: SS003 Source: Sediment (General)

Begin Date: 92/08/25 10:25

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	2UJ	ug/kg
Acetone	11UJ	ug/kg
Chloroform	2U	ug/kg
Benzene	2U	ug/kg
1,1,1-Trichloroethane	2UJ	ug/kg
Bromomethane	2U	ug/kg
Chloromethane	2UJ	ug/kg
Dibromomethane	2U	ug/kg
Bromochloromethane	2U	ug/kg
Chloroethane	2UJ	ug/kg
Vinyl Chloride	2UJ	ug/kg
Methylene Chloride	11U	ug/kg
Carbon Disulfide	11U	ug/kg
Bromoform	2U	ug/kg
Bromodichloromethane	2UJ	ug/kg
1,1-Dichloroethane	2U	ug/kg
1,1-Dichloroethene	2U	ug/kg
Trichlorofluoromethane	2UJ	ug/kg
Methane, Dichlorodiflu+	11UJ	ug/kg
1,2-Dichloropropane	2U	ug/kg
2-Butanone	11U	ug/kg
1,1,2-Trichloroethane	2U	ug/kg
Ethene, trichloro-	2U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	2U	ug/kg
1,2,3-Trichlorobenzene	2U	ug/kg
Hexachlorobutadiene	2U	ug/kg
Naphthalene	2U	ug/kg
2-Chlorotoluene	2U	ug/kg
1,2-Dichlorobenzene	2U	ug/kg
1,2,4-Trimethylbenzene	2U	ug/kg
1,2-Dibromo-3-chloropr+	11U	ug/kg
1,2,3-Trichloropropane	2U	ug/kg
Tert-Butylbenzene	2U	ug/kg
Isopropylbenzene (Cume+	2U	ug/kg
p-Isopropyltoluene	2U	ug/kg
Ethylbenzene	2U	ug/kg
BENZENE, ETHENYL-(STYR+	2U	ug/kg
BENZENE, PROPYL-	2U	ug/kg
Butylbenzene	2U	ug/kg
4-Chlorotoluene	2U	ug/kg
1,4-Dichlorobenzene	2U	ug/kg
1,2-Dibromoethane (EDB)	2U	ug/kg
1,2-Dichloroethane	2UJ	ug/kg
4-Methyl-2-Pentanone(M+	2U	ug/kg
1,3,5-Trimethylbenzene	2UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Bromobenzene	2U	ug/kg
Toluene	2U	ug/kg
Chlorobenzene	2U	ug/kg
1,2,4-Trichlorobenzene	2U	ug/kg
Dibromochloromethane	2U	ug/kg
Tetrachloroethene	2U	ug/kg
Sec-Butylbenzene	2U	ug/kg
1,3-Dichloropropane	2U	ug/kg
Cis-1,2-Dichloroethene	2U	ug/kg
trans-1,2-Dichloroethe+	2U	ug/kg
1,3-Dichlorobenzene	2U	ug/kg
1,1-Dichloropropene	2UJ	ug/kg
2-Hexanone	2U	ug/kg
2,2-Dichloropropane	2U	ug/kg
Ethane, 1,1,1,2-Tetrac+	2U	ug/kg
Total Xylenes	2U	ug/kg
cis-1,3-Dichloropropene	2U	ug/kg
trans-1,3-Dichloroprop+	2U	ug/kg
p-Bromofluorobenzene	102	% Recov
FLUOROBENZENE	100	% Recov
d8-Toluene	93	% Recov
d4-1,2-Dichlorobenzene+	109	% Recov
1,2-Dichloroethane-d4 +	111	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352363 Description: SS004 Source: Sediment (General)

Begin Date: 92/08/25 11:30

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	2U	ug/kg
Acetone	110J*	ug/kg
Chloroform	2U	ug/kg
Benzene	2U	ug/kg
1,1,1-Trichloroethane	2U	ug/kg
Bromomethane	2U	ug/kg
Chloromethane	2U	ug/kg
Dibromomethane	2U	ug/kg
Bromochloromethane	2U	ug/kg
Chloroethane	2U	ug/kg
Vinyl Chloride	2U	ug/kg
Methylene Chloride	12U	ug/kg
Carbon Disulfide	12U	ug/kg
Bromoform	2UJ	ug/kg
Bromodichloromethane	2U	ug/kg
1,1-Dichloroethane	2U	ug/kg
1,1-Dichloroethene	2U	ug/kg
Trichlorofluoromethane	2U	ug/kg
Methane, Dichlorodiflu+	12UJ	ug/kg
1,2-Dichloropropane	2U	ug/kg
2-Butanone	8J*	ug/kg
1,1,2-Trichloroethane	2U	ug/kg
Ethene, trichloro-	2U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	2U	ug/kg
1,2,3-Trichlorobenzene	2UJ	ug/kg
Hexachlorobutadiene	2UJ	ug/kg
Naphthalene	2UJ	ug/kg
2-Chlorotoluene	2UJ	ug/kg
1,2-Dichlorobenzene	2UJ	ug/kg
1,2,4-Trimethylbenzene	2UJ	ug/kg
1,2-Dibromo-3-chloropr+	12UJ	ug/kg
1,2,3-Trichloropropane	2UJ	ug/kg
Tert-Butylbenzene	2UJ	ug/kg
Isopropylbenzene (Cume+	2UJ	ug/kg
p-Isopropyltoluene	2UJ	ug/kg
Ethylbenzene	2U	ug/kg
BENZENE, ETHENYL-(STYR+	2U	ug/kg
BENZENE, PROPYL-	2UJ	ug/kg
Butylbenzene	2UJ	ug/kg
4-Chlorotoluene	2UJ	ug/kg
1,4-Dichlorobenzene	2UJ	ug/kg
1,2-Dibromoethane (EDB)	2U	ug/kg
1,2-Dichloroethane	2U	ug/kg
4-Methyl-2-Pentanone(M+	2U	ug/kg
1,3,5-Trimethylbenzene	2UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Bromobenzene	2UJ	ug/kg
Toluene	2U	ug/kg
Chlorobenzene	0.6J*	ug/kg
1,2,4-Trichlorobenzene	2UJ	ug/kg
Dibromochloromethane	2U	ug/kg
Tetrachloroethene	2U	ug/kg
Sec-Butylbenzene	2UJ	ug/kg
1,3-Dichloropropane	2U	ug/kg
Cis-1,2-Dichloroethene	2U	ug/kg
trans-1,2-Dichloroethe+	2U	ug/kg
1,3-Dichlorobenzene	2UJ	ug/kg
1,1-Dichloropropene	2U	ug/kg
2-Hexanone	2U	ug/kg
2,2-Dichloropropane	2U	ug/kg
Ethane, 1,1,1,2-Tetrac+	2U	ug/kg
Total Xylenes	2UJ	ug/kg
cis-1,3-Dichloropropene	2U	ug/kg
trans-1,3-Dichloroprop+	2U	ug/kg
p-Bromofluorobenzene	90	% Recov
FLUOROBENZENE	95	% Recov
d8-Toluene	109	% Recov
d4-1,2-Dichlorobenzene+	119	% Recov
1,2-Dichloroethane-d4 +	147	% Recov

Tent Ident - VOA Scan	Sediment Result	Units
UNKNOWN HYDROCARBONS (+	3500NJ*	ug/kg
OCTANE, 2,3,7-TRIMETHY+	620NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352364 Description: SS01-1 Source: Sediment (General)

Begin Date: 92/08/26 11:10

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	4U	ug/kg
Acetone	10U	ug/kg
Chloroform	4U	ug/kg
Benzene	4U	ug/kg
1,1,1-Trichloroethane	4U	ug/kg
Bromomethane	4U	ug/kg
Chloromethane	4U	ug/kg
Dibromomethane	4U	ug/kg
Bromochloromethane	4U	ug/kg
Chloroethane	4U	ug/kg
Vinyl Chloride	4U	ug/kg
Methylene Chloride	18U	ug/kg
Carbon Disulfide	18U	ug/kg
Bromoform	4UJ	ug/kg
Bromodichloromethane	4U	ug/kg
1,1-Dichloroethane	4U	ug/kg
1,1-Dichloroethene	4U	ug/kg
Trichlorofluoromethane	4U	ug/kg
Methane, Dichlorodiflu+	8J*	ug/kg
1,2-Dichloropropane	4U	ug/kg
2-Butanone	18U	ug/kg
1,1,2-Trichloroethane	4U	ug/kg
Ethene, trichloro-	4U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	4U	ug/kg
1,2,3-Trichlorobenzene	4UJ	ug/kg
Hexachlorobutadiene	4UJ	ug/kg
Naphthalene	4UJ	ug/kg
2-Chlorotoluene	4UJ	ug/kg
1,2-Dichlorobenzene	4UJ	ug/kg
1,2,4-Trimethylbenzene	4UJ	ug/kg
1,2-Dibromo-3-chloropr+	18UJ	ug/kg
1,2,3-Trichloropropane	4UJ	ug/kg
Tert-Butylbenzene	4UJ	ug/kg
Isopropylbenzene (Cume+	4UJ	ug/kg
p-Isopropyltoluene	4UJ	ug/kg
Ethylbenzene	4U	ug/kg
BENZENE, ETHENYL-(STYR+	4U	ug/kg
BENZENE, PROPYL-	4UJ	ug/kg
Butylbenzene	4UJ	ug/kg
4-Chlorotoluene	4UJ	ug/kg
1,4-Dichlorobenzene	4UJ	ug/kg
1,2-Dibromoethane (EDB)	4U	ug/kg
1,2-Dichloroethane	4U	ug/kg
4-Methyl-2-Pentanone(M+	4U	ug/kg
1,3,5-Trimethylbenzene	4UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Bromobenzene	4UJ	ug/kg
Toluene	4U	ug/kg
Chlorobenzene	4U	ug/kg
1,2,4-Trichlorobenzene	4UJ	ug/kg
Dibromochloromethane	4U	ug/kg
Tetrachloroethene	4U	ug/kg
Sec-Butylbenzene	4UJ	ug/kg
1,3-Dichloropropane	4U	ug/kg
Cis-1,2-Dichloroethene	4U	ug/kg
trans-1,2-Dichloroethe+	4U	ug/kg
1,3-Dichlorobenzene	4UJ	ug/kg
1,1-Dichloropropene	4U	ug/kg
2-Hexanone	4U	ug/kg
2,2-Dichloropropane	4U	ug/kg
Ethane, 1,1,1,2-Tetrac+	4U	ug/kg
Total Xylenes	4UJ	ug/kg
cis-1,3-Dichloropropene	4U	ug/kg
trans-1,3-Dichloroprop+	4U	ug/kg
p-Bromofluorobenzene	83	% Recov
FLUOROBENZENE	96	% Recov
d8-Toluene	114	% Recov
d4-1,2-Dichlorobenzene+	92	% Recov
1,2-Dichloroethane-d4 +	143	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352365 Description: SS01-2 Source: Sediment (General)

Begin Date: 92/08/26 11:10

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	11U	ug/kg
Chloroform	3U	ug/kg
Benzene	3UJ	ug/kg
1,1,1-Trichloroethane	3UJ	ug/kg
Bromomethane	3U	ug/kg
Chloromethane	3U	ug/kg
Dibromomethane	3UJ	ug/kg
Bromochloromethane	3U	ug/kg
Chloroethane	3U	ug/kg
Vinyl Chloride	3U	ug/kg
Methylene Chloride	16U	ug/kg
Carbon Disulfide	16U	ug/kg
Bromoform	3UJ	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethane	3U	ug/kg
1,1-Dichloroethene	3U	ug/kg
Trichlorofluoromethane	3U	ug/kg
Methane, Dichlorodiflu+	14J*	ug/kg
1,2-Dichloropropane	3UJ	ug/kg
2-Butanone	16U	ug/kg
1,1,2-Trichloroethane	3UJ	ug/kg
Ethene, trichloro-	3UJ	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3UJ	ug/kg
1,2,3-Trichlorobenzene	3UJ	ug/kg
Hexachlorobutadiene	3UJ	ug/kg
Naphthalene	3UJ	ug/kg
2-Chlorotoluene	3UJ	ug/kg
1,2-Dichlorobenzene	3UJ	ug/kg
1,2,4-Trimethylbenzene	3UJ	ug/kg
1,2-Dibromo-3-chloropr+	16UJ	ug/kg
1,2,3-Trichloropropene	3UJ	ug/kg
Tert-Butylbenzene	3UJ	ug/kg
Isopropylbenzene (Cume+	3UJ	ug/kg
p-Isopropyltoluene	3UJ	ug/kg
Ethylbenzene	3UJ	ug/kg
BENZENE, ETHENYL-(STYR+	3UJ	ug/kg
BENZENE, PROPYL-	3UJ	ug/kg
Butylbenzene	3UJ	ug/kg
4-Chlorotoluene	3UJ	ug/kg
1,4-Dichlorobenzene	3UJ	ug/kg
1,2-Dibromoethane (EDB)	3UJ	ug/kg
1,2-Dichloroethane	3U	ug/kg
4-Methyl-2-Pentanone(M+	3UJ	ug/kg
1,3,5-Trimethylbenzene	3UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Bromobenzene	3UJ	ug/kg
Toluene	0.5J*	ug/kg
Chlorobenzene	3UJ	ug/kg
1,2,4-Trichlorobenzene	3UJ	ug/kg
Dibromochloromethane	3UJ	ug/kg
Tetrachloroethene	3UJ	ug/kg
Sec-Butylbenzene	3UJ	ug/kg
1,3-Dichloropropane	3UJ	ug/kg
Cis-1,2-Dichloroethene	3U	ug/kg
trans-1,2-Dichloroethe+	3U	ug/kg
1,3-Dichlorobenzene	3UJ	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3UJ	ug/kg
2,2-Dichloropropane	3U	ug/kg
Ethane, 1,1,1,2-Tetrac+	3UJ	ug/kg
Total Xylenes	3UJ	ug/kg
cis-1,3-Dichloropropene	3UJ	ug/kg
trans-1,3-Dichloroprop+	3UJ	ug/kg
p-Bromofluorobenzene	77	% Recov
FLUOROBENZENE	100	% Recov
d8-Toluene	117	% Recov
d4-1,2-Dichlorobenzene+	93	% Recov
1,2-Dichloroethane-d4 +	147	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352366 Description: SS02-1 Source: Sediment (General)

Begin Date: 92/08/26 11:35

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	8UJ	ug/kg
Chloroform	3UJ	ug/kg
Benzene	3U	ug/kg
1,1,1-Trichloroethane	3UJ	ug/kg
Bromomethane	3U	ug/kg
Chloromethane	3UJ	ug/kg
Dibromomethane	3U	ug/kg
Bromochloromethane	3U	ug/kg
Chloroethane	3UJ	ug/kg
Vinyl Chloride	3U	ug/kg
Methylene Chloride	3U	ug/kg
Carbon Disulfide	17U	ug/kg
Bromoform	3U	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethene	3UJ	ug/kg
1,1-Dichloroethene	3U	ug/kg
Trichlorofluoromethane	0.5J*	ug/kg
Methane, Dichlorodiflu+	23J*	ug/kg
1,2-Dichloropropane	3U	ug/kg
2-Butanone	17U	ug/kg
1,1,2-Trichloroethane	3U	ug/kg
Ethene, trichloro-	3U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3U	ug/kg
1,2,3-Trichlorobenzene	3U	ug/kg
Hexachlorobutadiene	3U	ug/kg
Naphthalene	4 *	ug/kg
2-Chlorotoluene	3U	ug/kg
1,2-Dichlorobenzene	3U	ug/kg
1,2,4-Trimethylbenzene	1J*	ug/kg
1,2-Dibromo-3-chloropr+	17U	ug/kg
1,2,3-Trichloropropane	3U	ug/kg
Tert-Butylbenzene	3U	ug/kg
Isopropylbenzene (Cume+	3U	ug/kg
p-Isopropyltoluene	3U	ug/kg
Ethylbenzene	3U	ug/kg
BENZENE, ETHENYL-(STYR+	3U	ug/kg
BENZENE, PROPYL-	3U	ug/kg
Butylbenzene	3U	ug/kg
4-Chlorotoluene	3U	ug/kg
1,4-Dichlorobenzene	3U	ug/kg
1,2-Dibromoethane (EDB)	3U	ug/kg
1,2-Dichloroethane	3UJ	ug/kg
4-Methyl-2-Pentanone(M+	3U	ug/kg
1,3,5-Trimethylbenzene	0.7J*	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Bromobenzene	3U	ug/kg
Toluene	3U	ug/kg
Chlorobenzene	3U	ug/kg
1,2,4-Trichlorobenzene	3U	ug/kg
Dibromochloromethane	3U	ug/kg
Tetrachloroethene	3U	ug/kg
Sec-Butylbenzene	3U	ug/kg
1,3-Dichloropropane	3U	ug/kg
Cis-1,2-Dichloroethene	3U	ug/kg
trans-1,2-Dichloroethe+	3U	ug/kg
1,3-Dichlorobenzene	3U	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3U	ug/kg
2,2-Dichloropropane	3UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	3U	ug/kg
Total Xylenes	0.09J*	ug/kg
cis-1,3-Dichloropropene	3U	ug/kg
trans-1,3-Dichloroprop+	3UJ	ug/kg
p-Bromofluorobenzene	85	% Recov
FLUOROBENZENE	101	% Recov
d8-Toluene	100	% Recov
d4-1,2-Dichlorobenzene+	84	% Recov
1,2-Dichloroethane-d4 +	97	% Recov

Tent Ident - VOA Sca	Sediment Result	Units
BENZENE, 1-METHYL-3-(1+	4.2NJ*	ug/kg
NAPHTHALENE, 1,3-DIMET+	100NJ*	ug/kg
UNKNOWN BENZENES (TOTA+	10NJ*	ug/kg
1H-INDENE, 2,3-DIHYDRO+	18NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352367 Description: SS02-2 Source: Sediment (General)

Begin Date: 92/08/26 11:35

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	16U	ug/kg
Chloroform	3UJ	ug/kg
Benzene	3U	ug/kg
1,1,1-Trichloroethane	3UJ	ug/kg
Bromomethane	3U	ug/kg
Chloromethane	3UJ	ug/kg
Dibromomethane	3U	ug/kg
Bromochloromethane	3U	ug/kg
Chloroethane	3UJ	ug/kg
Vinyl Chloride	3U	ug/kg
Methylene Chloride	3J*	ug/kg
Carbon Disulfide	16U	ug/kg
Bromoform	3U	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethane	3UJ	ug/kg
1,1-Dichloroethene	0.1J*	ug/kg
Trichlorofluoromethane	0.7J*	ug/kg
Methane, Dichlorodiflu+	41UJ	ug/kg
1,2-Dichloropropane	3U	ug/kg
2-Butanone	16U	ug/kg
1,1,2-Trichloroethane	3U	ug/kg
Ethene, trichloro-	3U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3U	ug/kg
1,2,3-Trichlorobenzene	3U	ug/kg
Hexachlorobutadiene	3U	ug/kg
Naphthalene	1J*	ug/kg
2-Chlorotoluene	3U	ug/kg
1,2-Dichlorobenzene	3U	ug/kg
1,2,4-Trimethylbenzene	3U	ug/kg
1,2-Dibromo-3-chloropr+	16U	ug/kg
1,2,3-Trichloropropane	3U	ug/kg
Tert-Butylbenzene	3U	ug/kg
Isopropylbenzene (Cume+	3U	ug/kg
p-Isopropyltoluene	3U	ug/kg
Ethylbenzene	3U	ug/kg
BENZENE, ETHENYL-(STYR+	3U	ug/kg
BENZENE, PROPYL-	3U	ug/kg
Butylbenzene	3U	ug/kg
4-Chlorotoluene	3U	ug/kg
1,4-Dichlorobenzene	3U	ug/kg
1,2-Dibromoethane (EDB)	3U	ug/kg
1,2-Dichloroethane	3UJ	ug/kg
4-Methyl-2-Pentanone(M+	3U	ug/kg
1,3,5-Trimethylbenzene	3UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Bromobenzene	3U	ug/kg
Toluene	3U	ug/kg
Chlorobenzene	3U	ug/kg
1,2,4-Trichlorobenzene	3U	ug/kg
Dibromochloromethane	3U	ug/kg
Tetrachloroethane	3U	ug/kg
Sec-Butylbenzene	3U	ug/kg
1,3-Dichloropropane	3U	ug/kg
Cis-1,2-Dichloroethene	3U	ug/kg
trans-1,2-Dichloroethe+	3U	ug/kg
1,3-Dichlorobenzene	3U	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3U	ug/kg
2,2-Dichloropropane	3UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	3U	ug/kg
Total Xylenes	3U	ug/kg
cis-1,3-Dichloropropene	3U	ug/kg
trans-1,3-Dichloroprop+	3UJ	ug/kg
p-Bromofluorobenzene	99	% Recov
FLUOROBENZENE	NAF	% Recov
d8-Toluene	91	% Recov
d4-1,2-Dichlorobenzene+	114	% Recov
1,2-Dichloroethane-d4 +	91	% Recov

Tent Ident - VOA Scn	Sediment Result	Units
BENZENE, 1-METHYL-3-(1+	3.9NJ*	ug/kg
NAPHTHALENE, 2,3-DIMET+	14NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352368 Description: SS03-1 Source: Sediment (General)

Begin Date: 92/08/26 11:45

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	200UJ	ug/kg
Acetone	1000UJ	ug/kg
Chloroform	200U	ug/kg
Benzene	200U	ug/kg
1,1,1-Trichloroethane	200UJ	ug/kg
Bromomethane	200U	ug/kg
Chloromethane	200UJ	ug/kg
Dibromomethane	200U	ug/kg
Bromochloromethane	200U	ug/kg
Chloroethane	200UJ	ug/kg
Vinyl Chloride	200UJ	ug/kg
Methylene Chloride	1000U	ug/kg
Carbon Disulfide	1000U	ug/kg
Bromoform	200U	ug/kg
Bromodichloromethane	200UJ	ug/kg
1,1-Dichloroethane	200U	ug/kg
1,1-Dichloroethene	200U	ug/kg
Trichlorofluoromethane	200UJ	ug/kg
Methane, Dichlorodiflu+	1000UJ	ug/kg
1,2-Dichloropropane	200U	ug/kg
2-Butanone	1000U	ug/kg
1,1,2-Trichloroethane	200U	ug/kg
Ethene, trichloro-	200U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	200U	ug/kg
1,2,3-Trichlorobenzene	200U	ug/kg
Hexachlorobutadiene	200U	ug/kg
Naphthalene	1200 *	ug/kg
2-Chlorotoluene	200U	ug/kg
1,2-Dichlorobenzene	200U	ug/kg
1,2,4-Trimethylbenzene	1300 *	ug/kg
1,2-Dibromo-3-chloropr+	1000U	ug/kg
1,2,3-Trichloropropane	200U	ug/kg
Tert-Butylbenzene	200U	ug/kg
Isopropylbenzene (Cume+	200U	ug/kg
p-Isopropyltoluene	200U	ug/kg
Ethylbenzene	13J*	ug/kg
BENZENE, ETHENYL-(STYR+	200U	ug/kg
BENZENE, PROPYL-	200U	ug/kg
Butylbenzene	200U	ug/kg
4-Chlorotoluene	200U	ug/kg
1,4-Dichlorobenzene	200U	ug/kg
1,2-Dibromoethane (EDB)	200U	ug/kg
1,2-Dichloroethane	200UJ	ug/kg
4-Methyl-2-Pentanone(M+	200U	ug/kg
1,3,5-Trimethylbenzene	1800J*	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Bromobenzene	200U	ug/kg
Toluene	15J*	ug/kg
Chlorobenzene	200U	ug/kg
1,2,4-Trichlorobenzene	200U	ug/kg
Dibromochloromethane	200U	ug/kg
Tetrachloroethene	200U	ug/kg
Sec-Butylbenzene	200U	ug/kg
1,3-Dichloropropane	200U	ug/kg
Cis-1,2-Dichloroethene	200U	ug/kg
trans-1,2-Dichloroethe+	200U	ug/kg
1,3-Dichlorobenzene	200U	ug/kg
1,1-Dichloropropene	200UJ	ug/kg
2-Hexanone	200U	ug/kg
2,2-Dichloropropane	200U	ug/kg
Ethane, 1,1,1,2-Tetrac+	200U	ug/kg
Total Xylenes	400 *	ug/kg
cis-1,3-Dichloropropene	200U	ug/kg
trans-1,3-Dichloroprop+	200U	ug/kg
p-Bromofluorobenzene	99	% Recov
FLUOROBENZENE	100	% Recov
d8-Toluene	93	% Recov
d4-1,2-Dichlorobenzene+	110	% Recov
1,2-Dichloroethane-d4 +	96	% Recov

VOA - PP Scan (GCMS) Duplicate #1	Sediment Result	Units
Carbon Tetrachloride	6UJ	ug/kg
Acetone	28U	ug/kg
Chloroform	6UJ	ug/kg
Benzene	3J*	ug/kg
1,1,1-Trichloroethane	6UJ	ug/kg
Bromomethane	6U	ug/kg
Chloromethane	6UJ	ug/kg
Dibromomethane	6UJ	ug/kg
Bromochloromethane	6U	ug/kg
Chloroethane	6UJ	ug/kg
Vinyl Chloride	6UJ	ug/kg
Methylene Chloride	28U	ug/kg
Carbon Disulfide	28U	ug/kg
Bromoform	6UJ	ug/kg
Bromodichloromethane	6UJ	ug/kg
1,1-Dichloroethane	6U	ug/kg

VOA - PP Scan (GCMS) *** Continued *** Duplicate #1	Sediment Result	Units
1,1-Dichloroethene	6U	ug/kg
Trichlorofluoromethane	6J*	ug/kg
Methane, Dichlorodiflu+	37J*	ug/kg
1,2-Dichloropropane	6UJ	ug/kg
2-Butanone	8U	ug/kg
1,1,2-Trichloroethane	6UJ	ug/kg
Ethene, trichloro-	6UJ	ug/kg
ETHANE, 1,1,2,2-TETRAC+	6UJ	ug/kg
1,2,3-Trichlorobenzene	6UJ	ug/kg
Hexachlorobutadiene	6UJ	ug/kg
Naphthalene	370J*	ug/kg
2-Chlorotoluene	6UJ	ug/kg
1,2-Dichlorobenzene	6UJ	ug/kg
1,2,4-Trimethylbenzene	790J*	ug/kg
1,2-Dibromo-3-chloropr+	28UJ	ug/kg
1,2,3-Trichloropropane	6UJ	ug/kg
Tert-Butylbenzene	6UJ	ug/kg
Isopropylbenzene (Cume+	6UJ	ug/kg
p-Isopropyltoluene	6UJ	ug/kg
Ethylbenzene	11J*	ug/kg
BENZENE, ETHENYL-(STYR+	6UJ	ug/kg
BENZENE, PROPYL-	6UJ	ug/kg
Butylbenzene	6UJ	ug/kg
4-Chlorotoluene	6UJ	ug/kg
1,4-Dichlorobenzene	6UJ	ug/kg
1,2-Dibromoethane (EDB)	6UJ	ug/kg
1,2-Dichloroethane	6UJ	ug/kg
4-Methyl-2-Pentanone(M+	6UJ	ug/kg
1,3,5-Trimethylbenzene	1200J*	ug/kg
Bromobenzene	6UJ	ug/kg
Toluene	11J*	ug/kg
Chlorobenzene	6UJ	ug/kg
1,2,4-Trichlorobenzene	6UJ	ug/kg
Dibromochloromethane	6UJ	ug/kg
Tetrachloroethene	6UJ	ug/kg
Sec-Butylbenzene	6UJ	ug/kg
1,3-Dichloropropane	6UJ	ug/kg
Cis-1,2-Dichloroethene	6U	ug/kg
trans-1,2-Dichloroethe+	6U	ug/kg
1,3-Dichlorobenzene	6UJ	ug/kg
1,1-Dichloropropene	6UJ	ug/kg
2-Hexanone	6UJ	ug/kg
2,2-Dichloropropane	6UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	6UJ	ug/kg

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352368 Description: SS03-1 Source: Sediment (General)

Begin Date: 92/08/26 11:45

VOA - PP Scan (GCMS) *** Continued *** Duplicate #1	Sediment Result	Units
Total Xylenes	380J*	ug/kg
cis-1,3-Dichloropropene	6UJ	ug/kg
trans-1,3-Dichloroprop+	6UJ	ug/kg
p-Bromofluorobenzene	294	% Recov
FLUOROBENZENE	106	% Recov
d8-Toluene	121	% Recov
d4-1,2-Dichlorobenzene+	295	% Recov
1,2-Dichloroethane-d4 +	143	% Recov

Tent Ident - VOA Sca	Sediment Result	Units
p-Isopropyltoluene	18000NJ*	ug/kg
NAPHTHALENE, 1,2,3,4-T+	3600NJ*	ug/kg
BENZENE, 1,2,3-TRIMETH+	3400NJ*	ug/kg
UNKNOWN HYDROCARBONS (+	18000NJ*	ug/kg
1H-INDENE, 2,3-DIHYDRO+	25000NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU2Z

Laboratory: EPA, Manchester

Sample No: 92 352369 Description: SS03-2 Source: Sediment (General)

Begin Date: 92/08/26 11:45

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	350UJ	ug/kg
Acetone	1700U	ug/kg
Chloroform	350UJ	ug/kg
Benzene	350U	ug/kg
1,1,1-Trichloroethane	350UJ	ug/kg
Bromomethane	350U	ug/kg
Chloromethane	350UJ	ug/kg
Dibromomethane	350U	ug/kg
Bromochloromethane	350U	ug/kg
Chloroethane	350UJ	ug/kg
Vinyl Chloride	350U	ug/kg
Methylene Chloride	1700U	ug/kg
Carbon Disulfide	1700U	ug/kg
Bromoform	350U	ug/kg
Bromodichloromethane	350UJ	ug/kg
1,1-Dichloroethane	350UJ	ug/kg
1,1-Dichloroethene	350U	ug/kg
Trichlorofluoromethane	350UJ	ug/kg
Methane, Dichlorodiflu+	1700UJ	ug/kg
1,2-Dichloropropane	350U	ug/kg
2-Butanone	1700U	ug/kg
1,1,2-Trichloroethane	350U	ug/kg
Ethene, trichloro-	350U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	350U	ug/kg
1,2,3-Trichlorobenzene	350U	ug/kg
Hexachlorobutadiene	350U	ug/kg
Naphthalene	6400 *	ug/kg
2-Chlorotoluene	350U	ug/kg
1,2-Dichlorobenzene	350U	ug/kg
1,2,4-Trimethylbenzene	5900 *	ug/kg
1,2-Dibromo-3-chloropr+	1700U	ug/kg
1,2,3-Trichloropropene	350U	ug/kg
Tert-Butylbenzene	350U	ug/kg
Isopropylbenzene (Cume+	350U	ug/kg
p-Isopropyltoluene	1500 *	ug/kg
Ethylbenzene	65J*	ug/kg
BENZENE, ETHENYL-(STYR+	350U	ug/kg
BENZENE, PROPYL-	110J*	ug/kg
Butylbenzene	350U	ug/kg
4-Chlorotoluene	350U	ug/kg
1,4-Dichlorobenzene	350U	ug/kg
1,2-Dibromoethane (EDB)	350U	ug/kg
1,2-Dichloroethene	350UJ	ug/kg
4-Methyl-2-Pentanone(M+	350U	ug/kg
1,3,5-Trimethylbenzene	5000J*	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Bromobenzene	350U	ug/kg
Toluene	49J*	ug/kg
Chlorobenzene	350U	ug/kg
1,2,4-Trichlorobenzene	350U	ug/kg
Dibromochloromethane	350U	ug/kg
Tetrachloroethene	350U	ug/kg
Sec-Butylbenzene	350U	ug/kg
1,3-Dichloropropene	350U	ug/kg
Cis-1,2-Dichloroethene	350U	ug/kg
trans-1,2-Dichloroethe+	350U	ug/kg
1,3-Dichlorobenzene	350U	ug/kg
1,1-Dichloropropene	350UJ	ug/kg
2-Hexanone	350U	ug/kg
2,2-Dichloropropane	350UJ	ug/kg
Ethene, 1,1,1,2-Tetrac+	350U	ug/kg
Total Xylenes	1620 *	ug/kg
cis-1,3-Dichloropropene	350U	ug/kg
trans-1,3-Dichloroprop+	350UJ	ug/kg
p-Bromofluorobenzene	106	% Recov
FLUOROBENZENE	100	% Recov
d8-Toluene	92	% Recov
d4-1,2-Dichlorobenzene+	112	% Recov
1,2-Dichloroethane-d4 +	80	% Recov

VOA - PP Scan (GCMS) Duplicate #2	Sediment Result	Units
Carbon Tetrachloride	86UJ	ug/kg
Acetone	430U	ug/kg
Chloroform	86UJ	ug/kg
Benzene	86U	ug/kg
1,1,1-Trichloroethane	86UJ	ug/kg
Bromomethane	86U	ug/kg
Chloromethane	86UJ	ug/kg
Dibromomethane	86U	ug/kg
Bromochloromethane	86U	ug/kg
Chloroethane	83UJ	ug/kg
Vinyl Chloride	86U	ug/kg
Methylene Chloride	430U	ug/kg
Carbon Disulfide	430U	ug/kg
Bromoform	86U	ug/kg
Bromodichloromethane	86UJ	ug/kg
1,1-Dichloroethane	86UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued *** Duplicate #2	Sediment Result	Units
1,1-Dichloroethene	86U	ug/kg
Trichlorofluoromethane	83UJ	ug/kg
Methane, Dichlorodiflu+	430UJ	ug/kg
1,2-Dichloropropane	86U	ug/kg
2-Butanone	430U	ug/kg
1,1,2-Trichloroethane	86U	ug/kg
Ethene, trichloro-	86U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	86U	ug/kg
1,2,3-Trichlorobenzene	86U	ug/kg
Hexachlorobutadiene	86U	ug/kg
Naphthalene	4800 *	ug/kg
2-Chlorotoluene	86U	ug/kg
1,2-Dichlorobenzene	86U	ug/kg
1,2,4-Trimethylbenzene	5700 *	ug/kg
1,2-Dibromo-3-chloropr+	430U	ug/kg
1,2,3-Trichloropropene	86U	ug/kg
Tert-Butylbenzene	86U	ug/kg
Isopropylbenzene (Cume+	48J*	ug/kg
p-Isopropyltoluene	86U	ug/kg
Ethylbenzene	71J*	ug/kg
BENZENE, ETHENYL-(STYR+	86U	ug/kg
BENZENE, PROPYL-	110 *	ug/kg
Butylbenzene	86U	ug/kg
4-Chlorotoluene	86U	ug/kg
1,4-Dichlorobenzene	86U	ug/kg
1,2-Dibromoethane (EDB)	86U	ug/kg
1,2-Dichloroethene	86UJ	ug/kg
4-Methyl-2-Pentanone(M+	86U	ug/kg
1,3,5-Trimethylbenzene	4900J*	ug/kg
Bromobenzene	86U	ug/kg
Toluene	41J*	ug/kg
Chlorobenzene	86U	ug/kg
1,2,4-Trichlorobenzene	86U	ug/kg
Dibromochloromethane	86U	ug/kg
Tetrachloroethene	86U	ug/kg
Sec-Butylbenzene	86U	ug/kg
1,3-Dichloropropane	86U	ug/kg
Cis-1,2-Dichloroethene	86U	ug/kg
trans-1,2-Dichloroethe+	86U	ug/kg
1,3-Dichlorobenzene	86U	ug/kg
1,1-Dichloropropene	86UJ	ug/kg
2-Hexanone	86U	ug/kg
2,2-Dichloropropane	86UJ	ug/kg
Ethene, 1,1,1,2-Tetrac+	86U	ug/kg

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352369 Description: SS03-2 Source: Sediment (General)

Begin Date: 92/08/26 11:45

VOA - PP Scan (GCMS) *** Continued *** Duplicate #2	Sediment Result	Units
Total Xylenes	1680 *	ug/kg
cis-1,3-Dichloropropene	86U	ug/kg
trans-1,3-Dichloroprop+	86UJ	ug/kg
p-Bromofluorobenzene	136	% Recov
FLUOROBENZENE	100	% Recov
d8-Toluene	90	% Recov
d4-1,2-Dichlorobenzene+	113	% Recov
1,2-Dichloroethane-d4 +	92	% Recov

Tent Ident - VOA Sca	Sediment Result	Units
Tert-Butylbenzene	18000NJ*	ug/kg
BENZENE, 1,2,3-TRIMETH+	11000NJ*	ug/kg
BENZENE, 1-METHYL-3-(1+	19000NJ*	ug/kg
UNKNOWN HYDROCARBONS (+	13000NJ*	ug/kg
UNKNOWN BENZENES (TOTA+	61000NJ*	ug/kg
1H-INDENE, 2,3-DIHYDRO+	91000NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352370 Description: SS04-1 Source: Sediment (General)

Begin Date: 92/08/26 12:00

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	16UJ	ug/kg
Chloroform	3U	ug/kg
Benzene	3U	ug/kg
1,1,1-Trichloroethane	3UJ	ug/kg
Bromomethane	3U	ug/kg
Chloromethane	3UJ	ug/kg
Dibromomethane	3U	ug/kg
Bromochloromethane	3U	ug/kg
Chloroethane	3UJ	ug/kg
Vinyl Chloride	3UJ	ug/kg
Methylene Chloride	16U	ug/kg
Carbon Disulfide	16U	ug/kg
Bromoform	3U	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethane	3U	ug/kg
1,1-Dichloroethene	3U	ug/kg
Trichlorofluoromethane	3UJ	ug/kg
Methane, Dichlorodiflu+	16UJ	ug/kg
1,2-Dichloropropane	3U	ug/kg
2-Butanone	16U	ug/kg
1,1,2-Trichloroethane	3U	ug/kg
Ethene, trichloro-	3U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3U	ug/kg
1,2,3-Trichlorobenzene	3U	ug/kg
Hexachlorobutadiene	3U	ug/kg
Naphthalene	3U	ug/kg
2-Chlorotoluene	3U	ug/kg
1,2-Dichlorobenzene	3U	ug/kg
1,2,4-Trimethylbenzene	3U	ug/kg
1,2-Dibromo-3-chloropr+	16U	ug/kg
1,2,3-Trichloropropane	3U	ug/kg
Tert-Butylbenzene	3U	ug/kg
Isopropylbenzene (Cume+	3U	ug/kg
p-Isopropyltoluene	3U	ug/kg
Ethylbenzene	3U	ug/kg
BENZENE, ETHENYL-(STYR+	3U	ug/kg
BENZENE, PROPYL-	3U	ug/kg
Butylbenzene	3U	ug/kg
4-Chlorotoluene	3U	ug/kg
1,4-Dichlorobenzene	3U	ug/kg
1,2-Dibromoethane (EDB)	3U	ug/kg
1,2-Dichloroethane	3UJ	ug/kg
4-Methyl-2-Pentanone(M+	3U	ug/kg
1,3,5-Trimethylbenzene	3UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Bromobenzene	3U	ug/kg
Toluene	3U	ug/kg
Chlorobenzene	3U	ug/kg
1,2,4-Trichlorobenzene	3U	ug/kg
Dibromochloromethane	3U	ug/kg
Tetrachloroethene	3U	ug/kg
Sec-Butylbenzene	3U	ug/kg
1,3-Dichloropropane	3U	ug/kg
Cis-1,2-Dichloroethene	3U	ug/kg
trans-1,2-Dichloroethe+	3U	ug/kg
1,3-Dichlorobenzene	3U	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3U	ug/kg
2,2-Dichloropropane	3U	ug/kg
Ethane, 1,1,1,2-Tetrac+	3U	ug/kg
Total Xylenes	3U	ug/kg
cis-1,3-Dichloropropene	3U	ug/kg
trans-1,3-Dichloroprop+	3U	ug/kg
p-Bromofluorobenzene	84	% Recov
FLUOROBENZENE	100	% Recov
d8-Toluene	101	% Recov
d4-1,2-Dichlorobenzene+	101	% Recov
1,2-Dichloroethane-d4 +	117	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Laboratory: EPA, Manchester

Sample No: 92 352371 Description: SS04-2 Source: Sediment (General)

Begin Date: 92/08/26 12:00

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	12U	ug/kg
Chloroform	3UJ	ug/kg
Benzene	3U	ug/kg
1,1,1-Trichloroethane	3UJ	ug/kg
Bromomethane	3U	ug/kg
Chloromethane	3UJ	ug/kg
Dibromomethane	3U	ug/kg
Bromochloromethane	3U	ug/kg
Chloroethane	3UJ	ug/kg
Vinyl Chloride	3UJ	ug/kg
Methylene Chloride	14U	ug/kg
Carbon Disulfide	14U	ug/kg
Bromoform	3U	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethane	3U	ug/kg
1,1-Dichloroethene	3U	ug/kg
Trichlorofluoromethane	3UJ	ug/kg
Methane, Dichlorodiflu+	3UJ	ug/kg
1,2-Dichloropropane	3U	ug/kg
2-Butanone	3U	ug/kg
1,1,2-Trichloroethane	3U	ug/kg
Ethane, trichloro-	3U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3U	ug/kg
1,2,3-Trichlorobenzene	3U	ug/kg
Hexachlorobutadiene	3U	ug/kg
Naphthalene	3U	ug/kg
2-Chlorotoluene	3U	ug/kg
1,2-Dichlorobenzene	3U	ug/kg
1,2,4-Trimethylbenzene	3U	ug/kg
1,2-Dibromo-3-chloropr+	14U	ug/kg
1,2,3-Trichloropropane	3U	ug/kg
Tert-Butylbenzene	3U	ug/kg
Isopropylbenzene (Cume+	3U	ug/kg
p-Isopropyltoluene	3U	ug/kg
Ethylbenzene	3U	ug/kg
BENZENE, ETHENYL-(STYR+	3U	ug/kg
BENZENE, PROPYL-	3U	ug/kg
Butylbenzene	3U	ug/kg
4-Chlorotoluene	3U	ug/kg
1,4-Dichlorobenzene	3U	ug/kg
1,2-Dibromoethane (EDB)	3U	ug/kg
1,2-Dichloroethane	3UJ	ug/kg
4-Methyl-2-Pentanone(M+	3U	ug/kg
1,3,5-Trimethylbenzene	3U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Bromobenzene	3U	ug/kg
Toluene	3U	ug/kg
Chlorobenzene	3U	ug/kg
1,2,4-Trichlorobenzene	3U	ug/kg
Dibromochloromethane	3U	ug/kg
Tetrachloroethene	3U	ug/kg
Sec-Butylbenzene	3U	ug/kg
1,3-Dichloropropane	3U	ug/kg
Cis-1,2-Dichloroethene	3U	ug/kg
trans-1,2-Dichloroethe+	3U	ug/kg
1,3-Dichlorobenzene	3U	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3U	ug/kg
2,2-Dichloropropane	3UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	3U	ug/kg
Total Xylenes	3U	ug/kg
cis-1,3-Dichloropropene	3U	ug/kg
trans-1,3-Dichloroprop+	3U	ug/kg
p-Bromofluorobenzene	89	% Recov
FLUOROBENZENE	100	% Recov
d8-Toluene	103	% Recov
d4-1,2-Dichlorobenzene+	104	% Recov
1,2-Dichloroethane-d4 +	124	% Recov

Tent Idant - VOA Sca	Sediment Result	Units
UNKNOWN HYDROCARBONS	2.4NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU2Z

Laboratory: EPA, Manchester

Sample No: 92 352372 Description: SS05-1 Source: Sediment (General)

Begin Date: 92/08/26 12:10

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	8UJ	ug/kg
Chloroform	3UJ	ug/kg
Benzene	3U	ug/kg
1,1,1-Trichloroethane	3UJ	ug/kg
Bromomethane	3U	ug/kg
Chloromethane	3UJ	ug/kg
Dibromomethane	3U	ug/kg
Bromochloromethane	3U	ug/kg
Chloroethane	3UJ	ug/kg
Vinyl Chloride	3UJ	ug/kg
Methylene Chloride	15U	ug/kg
Carbon Disulfide	15U	ug/kg
Bromoform	3U	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethane	3U	ug/kg
1,1-Dichloroethene	3U	ug/kg
Trichlorofluoromethane	0.4J*	ug/kg
Methane, Dichlorodiflu+	16J*	ug/kg
1,2-Dichloropropane	3U	ug/kg
2-Butanone	3UJ	ug/kg
1,1,2-Trichloroethane	3U	ug/kg
Ethene, trichloro-	3U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3U	ug/kg
1,2,3-Trichlorobenzene	3U	ug/kg
Hexachlorobutadiene	3U	ug/kg
Naphthalene	3U	ug/kg
Benzene, 1,2-Dimethyl	3U	ug/kg
2-Chlorotoluene	3U	ug/kg
1,2-Dichlorobenzene	3U	ug/kg
1,2,4-Trimethylbenzene	3U	ug/kg
1,2-Dibromo-3-chloropr+	15U	ug/kg
1,2,3-Trichloropropane	3U	ug/kg
Tert-Butylbenzene	3U	ug/kg
Isopropylbenzene (Cume+	3U	ug/kg
p-Isopropyltoluene	3U	ug/kg
Ethylbenzene	3U	ug/kg
BENZENE, ETHENYL-(STYR+	3U	ug/kg
BENZENE, PROPYL-	3U	ug/kg
Butylbenzene	3U	ug/kg
4-Chlorotoluene	3U	ug/kg
1,4-Dichlorobenzene	3U	ug/kg
1,2-Dibromoethane (EDB)	3U	ug/kg
1,2-Dichloroethane	3UJ	ug/kg
4-Methyl-2-Pentanone(M+	3U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
1,3,5-Trimethylbenzene	3U	ug/kg
Bromobenzene	3U	ug/kg
Toluene	3U	ug/kg
Chlorobenzene	3U	ug/kg
1,2,4-Trichlorobenzene	3U	ug/kg
Dibromochloromethane	3U	ug/kg
Tetrachloroethene	3U	ug/kg
Sec-Butylbenzene	3U	ug/kg
1,3-Dichloropropane	3U	ug/kg
Cis-1,2-Dichloroethene	3U	ug/kg
trans-1,2-Dichloroethe+	3U	ug/kg
BENZENE, 1-BROMO-4-FLU+	87 *	ug/kg
1,3-Dichlorobenzene	3U	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3U	ug/kg
2,2-Dichloropropane	3UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	3U	ug/kg
cis-1,3-Dichloropropene	3U	ug/kg
trans-1,3-Dichloroprop+	3U	ug/kg
FLUOROBENZENE	101	% Recov
d8-Toluene	103	% Recov
d4-1,2-Dichlorobenzene+	101	% Recov
1,2-Dichloroethane-d4 +	113	% Recov

Tent Ident - VOA Scs	Sediment Result	Units
UNKNOWN HYDROCARBONS (+	12NJ*	ug/kg

(Sample Complete)

EPA Region X Lab Management System
Sample/Project Analysis Results

Project: TEC-575A AVERY RR DUMP AND ROUHDHOUSE Officer: MZR Account: EA10PU22

Laboratory: EPA, Manchester

Sample No: 92 352373 Description: SS05-2 Source: Sediment (General)

Begin Date: 92/08/26 12:10

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	27U	ug/kg
Chloroform	3UJ	ug/kg
Benzene	3U	ug/kg
1,1,1-Trichloroethane	3UJ	ug/kg
Bromomethane	3U	ug/kg
Chloromethane	3UJ	ug/kg
Dibromomethane	3U	ug/kg
Bromochloromethane	3UJ	ug/kg
Chloroethane	3U	ug/kg
Vinyl Chloride	3U	ug/kg
Methylene Chloride	3U	ug/kg
Carbon Disulfide	14UJ	ug/kg
Bromoform	3UJ	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethane	3U	ug/kg
1,1-Dichloroethene	3UJ	ug/kg
Trichlorofluoromethane	0.7J*	ug/kg
Methane, Dichlorodiflu+	14J*	ug/kg
1,2-Dichloropropane	3U	ug/kg
2-Butanone	3UJ	ug/kg
1,1,2-Trichloroethane	3U	ug/kg
Ethene, trichloro-	3U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3U	ug/kg
1,2,3-Trichlorobenzene	3UJ	ug/kg
Hexachlorobutadiene	3UJ	ug/kg
Naphthalene	3UJ	ug/kg
Benzene, 1,2-Dimethyl	3UJ	ug/kg
2-Chlorotoluene	3UJ	ug/kg
1,2-Dichlorobenzene	3UJ	ug/kg
1,2,4-Trimethylbenzene	3UJ	ug/kg
1,2-Dibromo-3-chloropr+	14UJ	ug/kg
1,2,3-Trichloropropane	3UJ	ug/kg
Tert-Butylbenzene	3UJ	ug/kg
Isopropylbenzene (Cume+	3UJ	ug/kg
p-Isopropyltoluene	3UJ	ug/kg
Ethylbenzene	3U	ug/kg
BENZENE, ETHENYL-(STYR+	3U	ug/kg
BENZENE, PROPYL-	3UJ	ug/kg
Butylbenzene	3UJ	ug/kg
4-Chlorotoluene	3UJ	ug/kg
1,4-Dichlorobenzene	3UJ	ug/kg
1,2-Dibromoethane (EDB)	3U	ug/kg
1,2-Dichloroethane	3UJ	ug/kg
4-Methyl-2-Pentanone(M+	3UJ	ug/kg
1,3,5-Trimethylbenzene	3U	ug/kg
Bromobenzene	3UJ	ug/kg
Toluene	3U	ug/kg
Chlorobenzene	3U	ug/kg
1,2,4-Trichlorobenzene	3UJ	ug/kg
Dibromochloromethane	3U	ug/kg
Tetrachloroethene	3U	ug/kg
Sec-Butylbenzene	3UJ	ug/kg
1,3-Dichloropropane	3U	ug/kg
Cis-1,2-Dichloroethene	3U	ug/kg
trans-1,2-Dichloroethe+	3U	ug/kg
1,3-Dichlorobenzene	3UJ	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3UJ	ug/kg
2,2-Dichloropropane	3UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	3U	ug/kg
cis-1,3-Dichloropropene	3U	ug/kg
trans-1,3-Dichloroprop+	3U	ug/kg
p-Bromofluorobenzene	67	% Recov
FLUOROBENZENE	104	% Recov
d8-Toluene	128	% Recov
d4-1,2-Dichlorobenzene+	102	% Recov
1,2-Dichloroethane-d4 +	121	% Recov

VOA - PP Scan (GCMS) Matrix Spike #1	Sediment Result	Units
Carbon Tetrachloride	110J	% Recov
Acetone	NAF	% Recov
Chloroform	115J	% Recov
Benzene	115J	% Recov
1,1,1-Trichloroethane	132J	% Recov
Bromomethane	50J	% Recov
Chloromethane	22	% Recov
Dibromomethane	144J	% Recov
Bromochloromethane	160J	% Recov
Chloroethane	45J	% Recov
Vinyl Chloride	28J	% Recov
Methylene Chloride	86J	% Recov
Carbon Disulfide	50J	% Recov
Bromoform	230J	% Recov
Bromodichloromethane	124J	% Recov
1,1-Dichloroethane	94J	% Recov
1,1-Dichloroethene	68J	% Recov
Trichlorofluoromethane	47J	% Recov
Methane, Dichlorodiflu+	NAF	% Recov
1,2-Dichloropropane	131J	% Recov
2-Butanone	290J	% Recov
1,1,2-Trichloroethane	140J	% Recov
Ethene, trichloro-	112J	% Recov
ETHANE, 1,1,2,2-TETRAC+	122J	% Recov
1,2,3-Trichlorobenzene	62J	% Recov
Hexachlorobutadiene	49J	% Recov
Naphthalene	79J	% Recov
2-Chlorotoluene	122J	% Recov
1,2-Dichlorobenzene	94J	% Recov
1,2,4-Trimethylbenzene	101J	% Recov
1,2-Dibromo-3-chloropr+	230J	% Recov
1,2,3-Trichloropropane	280J	% Recov
Tert-Butylbenzene	110J	% Recov
Isopropylbenzene (Cume+	138J	% Recov
p-Isopropyltoluene	88J	% Recov
Ethylbenzene	80J	% Recov
BENZENE, ETHENYL-(STYR+	68J	% Recov
BENZENE, PROPYL-	122J	% Recov
Butylbenzene	76J	% Recov
4-Chlorotoluene	112J	% Recov
1,4-Dichlorobenzene	98J	% Recov
1,2-Dibromoethane (EDB)	130J	% Recov
1,2-Dichloroethane	113J	% Recov
4-Methyl-2-Pentanone(M+	210J	% Recov
1,3,5-Trimethylbenzene	109J	% Recov
Bromobenzene	144J	% Recov
Toluene	99J	% Recov
Chlorobenzene	90J	% Recov
1,2,4-Trichlorobenzene	57J	% Recov
Dibromochloromethane	119J	% Recov
Tetrachloroethene	98J	% Recov
Sec-Butylbenzene	94J	% Recov
1,3-Dichloropropane	135J	% Recov
Cis-1,2-Dichloroethene	98J	% Recov
trans-1,2-Dichloroethe+	80J	% Recov
1,3-Dichlorobenzene	97J	% Recov
1,1-Dichloropropene	106J	% Recov
2-Hexanone	230J	% Recov
2,2-Dichloropropane	100J	% Recov
Ethane, 1,1,1,2-Tetrac+	108J	% Recov

(Continued on next page)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352373 Description: SS05-2 Source: Sediment (General)

Begin Date: 92/08/26 12:10

VOA - PP Scan (GCMS) *** Continued *** Matrix Spike #1	Sediment Result	Units
Total Xylenes	79J	% Recov
D4-1,2-Dichlorobenzene	99	% Recov
d8-Toluene	118	% Recov
cis-1,3-Dichloropropene	105J	% Recov
trans-1,3-Dichloroprop+	107J	% Recov
p-Bromofluorobenzene	72	% Recov
FLUOROBENZENE	101	% Recov
1,2-Dichloroethane-d4 +	126	% Recov

VOA - PP Scan (GCMS) Matrix Spike #2	Sediment Result	Units
Carbon Tetrachloride	120J	% Recov
Acetone	NAF	% Recov
Chloroform	116J	% Recov
Benzene	119J	% Recov
1,1,1-Trichloroethane	136J	% Recov
Bromomethane	108J	% Recov
Chloromethane	107J	% Recov
Dibromomethane	145J	% Recov
Bromochloromethane	148J	% Recov
Chloroethane	108J	% Recov
Vinyl Chloride	99J	% Recov
Methylene Chloride	102J	% Recov
Carbon Disulfide	92J	% Recov
Bromoform	240J	% Recov
Bromodichloromethane	128J	% Recov
1,1-Dichloroethane	122J	% Recov
1,1-Dichloroethene	100J	% Recov
Trichlorofluoromethane	79J	% Recov
Methane, Dichlorodiflu+	NAF	% Recov
1,2-Dichloropropane	128J	% Recov
2-Butanone	260J	% Recov
1,1,2-Trichloroethane	147J	% Recov
Ethene, trichloro-	112J	% Recov
ETHANE, 1,1,2,2-TETRAC+	122J	% Recov
1,2,3-Trichlorobenzene	40J	% Recov
Hexachlorobutadiene	40J	% Recov
Naphthalene	94J	% Recov
2-Chlorotoluene	132J	% Recov
1,2-Dichlorobenzene	94J	% Recov
1,2,4-Trimethylbenzene	110J	% Recov
1,2-Dibromo-3-chloropr+	290J	% Recov

VOA - PP Scan (GCMS) *** Continued *** Matrix Spike #2	Sediment Result	Units
1,2,3-Trichloropropane	290J	% Recov
Tert-Butylbenzene	114J	% Recov
Isopropylbenzene (Cume+	144J	% Recov
p-Isopropyltoluene	86J	% Recov
Ethylbenzene	80J	% Recov
BENZENE, ETHENYL-(STYR+	66J	% Recov
BENZENE, PROPYL-	124J	% Recov
Butylbenzene	81J	% Recov
4-Chlorotoluene	125J	% Recov
1,4-Dichlorobenzene	97J	% Recov
1,2-Dibromoethene (EDB)	126J	% Recov
1,2-Dichloroethane	118J	% Recov
4-Methyl-2-Pentanone(M+	240J	% Recov
1,3,5-Trimethylbenzene	109J	% Recov
Bromobenzene	142J	% Recov
Toluene	104J	% Recov
Chlorobenzene	86J	% Recov
1,2,4-Trichlorobenzene	42J	% Recov
Dibromochloromethane	126J	% Recov
Tetrachloroethene	97J	% Recov
Sec-Butylbenzene	100J	% Recov
1,3-Dichloropropane	132J	% Recov
Cis-1,2-Dichloroethene	116J	% Recov
trans-1,2-Dichloroethe+	100J	% Recov
1,3-Dichlorobenzene	94J	% Recov
1,1-Dichloropropene	108J	% Recov
2-Hexanone	230J	% Recov
2,2-Dichloropropane	119J	% Recov
Ethane, 1,1,1,2-Tetrac+	106J	% Recov
Total Xylenes	79J	% Recov
d8-Toluene	120	% Recov
cis-1,3-Dichloropropene	106J	% Recov
trans-1,3-Dichloroprop+	111J	% Recov
p-Bromofluorobenzene	71	% Recov
FLUOROBENZENE	101	% Recov
d4-1,2-Dichlorobenzene+	100	% Recov
1,2-Dichloroethane-d4 +	127	% Recov

Tent Ident - VOA Sca	Sediment Result	Units
UNKNOWN HYDROCARBONS	2.7NJ*	ug/kg

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PU2Z

Laboratory: EPA, Manchester

Sample No: 92 352374 Description: SS06-1 Source: Sediment (General)

Begin Date: 92/08/26 12:30

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	14U	ug/kg
Chloroform	3UJ	ug/kg
Benzene	3U	ug/kg
1,1,1-Trichloroethane	3UJ	ug/kg
Bromomethane	3U	ug/kg
Chloromethane	3UJ	ug/kg
Dibromomethane	3U	ug/kg
Bromochloromethane	3U	ug/kg
Chloroethane	3UJ	ug/kg
Vinyl Chloride	3UJ	ug/kg
Methylene Chloride	15U	ug/kg
Carbon Disulfide	15U	ug/kg
Bromoform	3UJ	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethane	3U	ug/kg
1,1-Dichloroethene	3U	ug/kg
Trichlorofluoromethane	3UJ	ug/kg
Methane, Dichlorodiflu+	0.4J*	ug/kg
1,2-Dichloropropane	3U	ug/kg
2-Butanone	3U	ug/kg
1,1,2-Trichloroethane	3U	ug/kg
Ethene, trichloro-	3U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3U	ug/kg
1,2,3-Trichlorobenzene	3UJ	ug/kg
Hexachlorobutadiene	3UJ	ug/kg
Naphthalene	3UJ	ug/kg
2-Chlorotoluene	3UJ	ug/kg
1,2-Dichlorobenzene	3UJ	ug/kg
1,2,4-Trimethylbenzene	3UJ	ug/kg
1,2-Dibromo-3-chloropr+	15UJ	ug/kg
1,2,3-Trichloropropane	3UJ	ug/kg
Tert-Butylbenzene	3UJ	ug/kg
Isopropylbenzene (Cume+	3UJ	ug/kg
p-Isopropyltoluene	3UJ	ug/kg
Ethylbenzene	3U	ug/kg
BENZENE, ETHENYL-(STYR+	3U	ug/kg
BENZENE, PROPYL-	3UJ	ug/kg
Butylbenzene	3UJ	ug/kg
4-Chlorotoluene	3UJ	ug/kg
1,4-Dichlorobenzene	3UJ	ug/kg
1,2-Dibromoethane (EDB)	3U	ug/kg
1,2-Dichloroethane	3UJ	ug/kg
4-Methyl-2-Pentanone(M+	3U	ug/kg
1,3,5-Trimethylbenzene	3UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Bromobenzene	3UJ	ug/kg
Toluene	3U	ug/kg
Chlorobenzene	3U	ug/kg
1,2,4-Trichlorobenzene	3UJ	ug/kg
Dibromochloromethane	3U	ug/kg
Tetrachloroethene	3U	ug/kg
Sec-Butylbenzene	3UJ	ug/kg
1,3-Dichloropropane	3U	ug/kg
Cis-1,2-Dichloroethene	3U	ug/kg
trans-1,2-Dichloroethe+	3U	ug/kg
1,3-Dichlorobenzene	3UJ	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3U	ug/kg
2,2-Dichloropropane	3UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	3U	ug/kg
Total Xylenes	3UJ	ug/kg
cis-1,3-Dichloropropene	3U	ug/kg
trans-1,3-Dichloroprop+	3U	ug/kg
p-Bromofluorobenzene	73	% Recov
FLUOROBENZENE	102	% Recov
d8-Toluene	114	% Recov
d4-1,2-Dichlorobenzene+	97	% Recov
1,2-Dichloroethane-d4 +	117	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352375 Description: SS06-2 Source: Sediment (General)

Begin Date: 92/08/26 12:30

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	21U	ug/kg
Chloroform	3UJ	ug/kg
Benzene	3U	ug/kg
1,1,1-Trichloroethane	0.6J*	ug/kg
Bromomethane	3U	ug/kg
Chloromethane	3UJ	ug/kg
Dibromomethane	3U	ug/kg
Bromochloromethane	3U	ug/kg
Chloroethane	3UJ	ug/kg
Vinyl Chloride	3UJ	ug/kg
Methylene Chloride	16U	ug/kg
Carbon Disulfide	16U	ug/kg
Bromoform	3UJ	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethane	3U	ug/kg
1,1-Dichloroethene	3U	ug/kg
Trichlorofluoromethane	3UJ	ug/kg
Methane, Dichlorodiflu+	3UJ	ug/kg
1,2-Dichloropropane	3U	ug/kg
2-Butanone	3U	ug/kg
1,1,2-Trichloroethene	3U	ug/kg
Ethene, trichloro-	3U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3U	ug/kg
1,2,3-Trichlorobenzene	4J*	ug/kg
Hexachlorobutadiene	3UJ	ug/kg
Naphthalene	3UJ	ug/kg
2-Chlorotoluene	3UJ	ug/kg
1,2-Dichlorobenzene	3UJ	ug/kg
1,2,4-Trimethylbenzene	3UJ	ug/kg
1,2-Dibromo-3-chloropr+	16 *	ug/kg
1,2,3-Trichloropropane	3UJ	ug/kg
Tert-Butylbenzene	3UJ	ug/kg
Isopropylbenzene (Cume+	3UJ	ug/kg
p-Isopropyltoluene	3UJ	ug/kg
Ethylbenzene	3U	ug/kg
BENZENE, ETHENYL-(STYR+	3U	ug/kg
BENZENE, PROPYL-	3UJ	ug/kg
Butylbenzene	3UJ	ug/kg
4-Chlorotoluene	3UJ	ug/kg
1,4-Dichlorobenzene	3UJ	ug/kg
1,2-Dibromoethane (EDB)	3U	ug/kg
1,2-Dichloroethane	3UJ	ug/kg
4-Methyl-2-Pentanone(M+	3U	ug/kg
1,3,5-Trimethylbenzene	3UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Bromobenzene	3UJ	ug/kg
Toluene	3U	ug/kg
Chlorobenzene	3U	ug/kg
1,2,4-Trichlorobenzene	8J*	ug/kg
Dibromochloromethane	3U	ug/kg
Tetrachloroethene	3U	ug/kg
Sec-Butylbenzene	3UJ	ug/kg
1,3-Dichloropropene	3U	ug/kg
Cis-1,2-Dichloroethene	3U	ug/kg
trans-1,2-Dichloroethe+	3U	ug/kg
1,3-Dichlorobenzene	3UJ	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3U	ug/kg
2,2-Dichloropropane	3UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	3U	ug/kg
Total Xylenes	3UJ	ug/kg
cis-1,3-Dichloropropene	3U	ug/kg
trans-1,3-Dichloroprop+	3U	ug/kg
p-Bromofluorobenzene	69	% Recov
FLUOROBENZENE	102	% Recov
D4-1,2-Dichlorobenzene	100	% Recov
d8-Toluene	116	% Recov
d4-1,2-Dichloroethene	123	% Recov

Tent Ident - VOA Sca	Sediment Result	Units
UNKNOWN HYDROCARBONS (+	77NJ*	ug/kg

(Sample Complete)

EPA Region X Lab Management System
Sample/Project Analysis Results

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352376 Description: SS07-1 Source: Sediment (General)

Begin Date: 92/08/26 12:10

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	16UJ	ug/kg
Chloroform	3U	ug/kg
Benzene	3U	ug/kg
1,1,1-Trichloroethane	0.6J*	ug/kg
Bromomethane	3U	ug/kg
Chloromethane	3UJ	ug/kg
Dibromomethane	3U	ug/kg
Bromochloromethane	3U	ug/kg
Chloroethane	3UJ	ug/kg
Vinyl Chloride	3UJ	ug/kg
Methylene Chloride	5U	ug/kg
Carbon Disulfide	0.1J*	ug/kg
Bromoform	3U	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethane	3U	ug/kg
1,1-Dichloroethene	0.4J*	ug/kg
Trichlorofluoromethane	3UJ	ug/kg
Methane, Dichlorodiflu+	76J*	ug/kg
1,2-Dichloropropane	3U	ug/kg
2-Butanone	16U	ug/kg
1,1,2-Trichloroethane	3U	ug/kg
Ethane, trichloro-	0.1J*	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3U	ug/kg
1,2,3-Trichlorobenzene	3U	ug/kg
Hexachlorobutadiene	3U	ug/kg
Naphthalene	3U	ug/kg
Benzene, 1,2-Dimethyl	3U	ug/kg
2-Chlorotoluene	3U	ug/kg
1,2-Dichlorobenzene	3U	ug/kg
1,2,4-Trimethylbenzene	3U	ug/kg
1,2-Dibromo-3-chloropr+	16U	ug/kg
1,2,3-Trichloropropane	3U	ug/kg
Tert-Butylbenzene	3U	ug/kg
Isopropylbenzene (Cume+	3U	ug/kg
p-Isopropyltoluene	3U	ug/kg
Ethylbenzene	3U	ug/kg
BENZENE, ETHENYL-(STYR+	3U	ug/kg
BENZENE, PROPYL-	3U	ug/kg
Butylbenzene	3U	ug/kg
4-Chlorotoluene	3U	ug/kg
1,4-Dichlorobenzene	3U	ug/kg
1,2-Dibromoethane (EDB)	3U	ug/kg
1,2-Dichloroethene	3UJ	ug/kg
4-Methyl-2-Pentanone(M+	3U	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
1,3,5-Trimethylbenzene	3UJ	ug/kg
Bromobenzene	3U	ug/kg
Toluene	3U	ug/kg
Chlorobenzene	3U	ug/kg
1,2,4-Trichlorobenzene	3U	ug/kg
Dibromochloromethane	3U	ug/kg
Tetrachloroethene	3U	ug/kg
Sec-Butylbenzene	3U	ug/kg
1,3-Dichloropropane	3U	ug/kg
Cis-1,2-Dichloroethene	3U	ug/kg
trans-1,2-Dichloroethe+	0.5J*	ug/kg
1,3-Dichlorobenzene	3U	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3U	ug/kg
2,2-Dichloropropane	3U	ug/kg
Ethane, 1,1,1,2-Tetrac+	3U	ug/kg
cis-1,3-Dichloropropene	3U	ug/kg
trans-1,3-Dichloroprop+	3U	ug/kg
p-Bromofluorobenzene	81	% Recov
FLUOROBENZENE	99	% Recov
d8-Toluene	102	% Recov
d4-1,2-Dichlorobenzene+	105	% Recov
1,2-Dichloroethene-d4 +	114	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA10PUZZ

Laboratory: EPA, Manchester

Sample No: 92 352377 Description: SS07-2 Source: Sediment (General)

Begin Date: 92/08/26 12:10

VOA - PP Scan (GCMS)	Sediment Result	Units
Carbon Tetrachloride	3UJ	ug/kg
Acetone	9UJ	ug/kg
Chloroform	3U	ug/kg
Benzene	3UJ	ug/kg
1,1,1-Trichloroethane	1J*	ug/kg
Bromomethane	3U	ug/kg
Chloromethane	3UJ	ug/kg
Dibromomethane	3UJ	ug/kg
Bromochloromethane	3U	ug/kg
Chloroethane	3UJ	ug/kg
Vinyl Chloride	3UJ	ug/kg
Methylene Chloride	16U	ug/kg
Carbon Disulfide	16U	ug/kg
Bromoform	3UJ	ug/kg
Bromodichloromethane	3UJ	ug/kg
1,1-Dichloroethane	3U	ug/kg
1,1-Dichloroethene	3U	ug/kg
Trichlorofluoromethane	3UJ	ug/kg
Methane, Dichlorodiflu+	16UJ	ug/kg
1,2-Dichloropropane	3UJ	ug/kg
2-Butanone	4UJ	ug/kg
1,1,2-Trichloroethane	3UJ	ug/kg
Ethane, trichloro-	3UJ	ug/kg
ETHANE, 1,1,2,2-TETRAC+	3UJ	ug/kg
1,2,3-Trichlorobenzene	3UJ	ug/kg
Hexachlorobutadiene	3UJ	ug/kg
Naphthalene	2J*	ug/kg
2-Chlorotoluene	3UJ	ug/kg
1,2-Dichlorobenzene	3UJ	ug/kg
1,2,4-Trimethylbenzene	3UJ	ug/kg
1,2-Dibromo-3-chloropr+	16UJ	ug/kg
1,2,3-Trichloropropane	3UJ	ug/kg
Tert-Butylbenzene	3UJ	ug/kg
Isopropylbenzene (Cume+	3UJ	ug/kg
p-Isopropyltoluene	3UJ	ug/kg
Ethylbenzene	3UJ	ug/kg
BENZENE, ETHENYL-(STYR+	3UJ	ug/kg
BENZENE, PROPYL-	3UJ	ug/kg
Butylbenzene	3UJ	ug/kg
4-Chlorotoluene	3UJ	ug/kg
1,4-Dichlorobenzene	3UJ	ug/kg
1,2-Dibromoethane (EDB)	3UJ	ug/kg
1,2-Dichloroethane	3UJ	ug/kg
4-Methyl-2-Pentanone(M+	3UJ	ug/kg
1,3,5-Trimethylbenzene	3UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued ***	Sediment Result	Units
Bromobenzene	3UJ	ug/kg
Toluene	3UJ	ug/kg
Chlorobenzene	3UJ	ug/kg
1,2,4-Trichlorobenzene	3UJ	ug/kg
Dibromochloromethane	3UJ	ug/kg
Tetrachloroethene	3UJ	ug/kg
Sec-Butylbenzene	3UJ	ug/kg
1,3-Dichloropropane	3UJ	ug/kg
Cis-1,2-Dichloroethene	3U	ug/kg
trans-1,2-Dichloroethe+	3U	ug/kg
1,3-Dichlorobenzene	3UJ	ug/kg
1,1-Dichloropropene	3UJ	ug/kg
2-Hexanone	3UJ	ug/kg
2,2-Dichloropropane	3U	ug/kg
Ethane, 1,1,1,2-Tetrac+	3UJ	ug/kg
Total Xylenes	3UJ	ug/kg
cis-1,3-Dichloropropene	3UJ	ug/kg
trans-1,3-Dichloroprop+	3UJ	ug/kg
p-Bromofluorobenzene	20	% Recov
FLUOROBENZENE	32	% Recov
d8-Toluene	43	% Recov
d4-1,2-Dichlorobenzene+	35	% Recov
1,2-Dichloroethane-d4 +	41	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPU22

Blank ID: BS2247

VOA - PP Scan (GCMS) Blank #2	Sediment Result	Units
Carbon Tetrachloride	2UJ	ug/kg
Acetone	2J*	ug/kg
Chloroform	2UJ	ug/kg
Benzene	2U	ug/kg
1,1,1-Trichloroethane	2UJ	ug/kg
Bromomethene	2U	ug/kg
Chloromethane	0.04J*	ug/kg
Dibromomethane	2U	ug/kg
Bromochloromethane	2U	ug/kg
Chloroethene	2UJ	ug/kg
Vinyl Chloride	2UJ	ug/kg
Methylene Chloride	0.2J*	ug/kg
Carbon Disulfide	10U	ug/kg
Bromoform	2U	ug/kg
Bromodichloromethane	2UJ	ug/kg
1,1-Dichloroethane	2U	ug/kg
1,1-Dichloroethene	2U	ug/kg
Trichlorofluoromethane	2UJ	ug/kg
Methene, Dichlorodiflu+	10UJ	ug/kg
1,2-Dichloropropane	2U	ug/kg
2-Butanone	0.3J*	ug/kg
1,1,2-Trichloroethane	2U	ug/kg
Ethene, trichloro-	2U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	2U	ug/kg
1,2,3-Trichlorobenzene	2U	ug/kg
Hexachlorobutadiene	2U	ug/kg
Naphthalene	0.2J*	ug/kg
2-Chlorotoluene	2U	ug/kg
1,2-Dichlorobenzene	2U	ug/kg
1,2,4-Trimethylbenzene	2U	ug/kg
1,2-Dibromo-3-chloropr+	10U	ug/kg
1,2,3-Trichloropropane	2U	ug/kg
Tert-Butylbenzene	2U	ug/kg
Isopropylbenzene (Cume+	2U	ug/kg
p-Isopropyltoluene	2U	ug/kg
Ethylbenzene	2U	ug/kg
BENZENE, ETHENYL-(STYR+	2U	ug/kg
BENZENE, PROPYL-	2U	ug/kg
Butylbenzene	0.04J*	ug/kg
4-Chlorotoluene	2U	ug/kg
1,4-Dichlorobenzene	2U	ug/kg
1,2-Dibromoethane (EDB)	2U	ug/kg
1,2-Dichloroethane	2UJ	ug/kg
4-Methyl-2-Pentanone(M+	2U	ug/kg
1,3,5-Trimethylbenzene	2U	ug/kg

VOA - PP Scan (GCMS) *** Continued *** Blank #2	Sediment Result	Units
Bromobenzene	2U	ug/kg
Toluene	0.1J*	ug/kg
Chlorobenzene	2U	ug/kg
1,2,4-Trichlorobenzene	2U	ug/kg
Dibromochloromethane	2U	ug/kg
Tetrachloroethene	2U	ug/kg
Sec-Butylbenzene	2U	ug/kg
1,3-Dichloropropane	2U	ug/kg
Cis-1,2-Dichloroethene	2U	ug/kg
trans-1,2-Dichloroethe+	2U	ug/kg
1,3-Dichlorobenzene	2U	ug/kg
1,1-Dichloropropene	2UJ	ug/kg
2-Hexanone	2U	ug/kg
2,2-Dichloropropane	2UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	2U	ug/kg
Total Xylenes	2U	ug/kg
cis-1,3-Dichloropropene	2U	ug/kg
trans-1,3-Dichloroprop+	2U	ug/kg
p-Bromofluorobenzene	95	% Recov
FLUOROBENZENE	98	% Recov
d8-Toluene	100	% Recov
d4-1,2-Dichlorobenzene+	107	% Recov
1,2-Dichloroethane-d4 +	104	% Recov

(Sample Complete)

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: M2R Account: FA10PUZ2

Blank ID: BS2248

VOA - PP Scan (GCMS) Blank #3	Sediment Result	Units
Carbon Tetrachloride	2UJ	ug/kg
Acetone	4J*	ug/kg
Chloroform	0.08J*	ug/kg
Benzene	2U	ug/kg
1,1,1-Trichloroethane	2UJ	ug/kg
Bromomethane	2U	ug/kg
Chloromethane	0.06J*	ug/kg
Dibromomethane	2U	ug/kg
Bromochloromethane	2U	ug/kg
Chloroethane	2UJ	ug/kg
Vinyl Chloride	2UJ	ug/kg
Methylene Chloride	0.2J*	ug/kg
Carbon Disulfide	10U	ug/kg
Bromoform	2U	ug/kg
Bromodichloromethane	2UJ	ug/kg
1,1-Dichloroethane	2U	ug/kg
1,1-Dichloroethene	2U	ug/kg
Trichlorofluoromethane	2UJ	ug/kg
Methane, Dichlorodiflu+	10UJ	ug/kg
1,2-Dichloropropane	2U	ug/kg
2-Butanone	1J*	ug/kg
1,1,2-Trichloroethane	2U	ug/kg
Ethene, trichloro-	2U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	2U	ug/kg
1,2,3-Trichlorobenzene	2U	ug/kg
Hexachlorobutadiene	2U	ug/kg
Naphthalene	0.4J*	ug/kg
2-Chlorotoluene	2U	ug/kg
1,2-Dichlorobenzene	2U	ug/kg
1,2,4-Trimethylbenzene	0.05J*	ug/kg
1,2-Dibromo-3-chloropr+	10U	ug/kg
1,2,3-Trichloropropane	2U	ug/kg
Tert-Butylbenzene	2U	ug/kg
Isopropylbenzene (Cume+	2U	ug/kg
p-Isopropyltoluene	2U	ug/kg
Ethylbenzene	2U	ug/kg
BENZENE, ETHENYL-(STYR+	2U	ug/kg
BENZENE, PROPYL-	2U	ug/kg
Butylbenzene	2U	ug/kg
4-Chlorotoluene	2U	ug/kg
1,4-Dichlorobenzene	2U	ug/kg
1,2-Dibromoethane (EDB)	2U	ug/kg
1,2-Dichloroethane	2UJ	ug/kg
4-Methyl-2-Pentanone(M+	2U	ug/kg
1,3,5-Trimethylbenzene	2UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued *** Blank #3	Sediment Result	Units
Bromobenzene	2U	ug/kg
Toluene	0.08J*	ug/kg
Chlorobenzene	2U	ug/kg
1,2,4-Trichlorobenzene	2U	ug/kg
Dibromochloromethane	2U	ug/kg
Tetrachloroethene	2U	ug/kg
Sec-Butylbenzene	2U	ug/kg
1,3-Dichloropropane	2U	ug/kg
Cis-1,2-Dichloroethene	2U	ug/kg
trans-1,2-Dichloroethe+	2U	ug/kg
1,3-Dichlorobenzene	2U	ug/kg
1,1-Dichloropropene	2UJ	ug/kg
2-Hexanone	0.5J*	ug/kg
2,2-Dichloropropane	2U	ug/kg
Ethane, 1,1,1,2-Tetrac+	2U	ug/kg
Total Xylenes	2U	ug/kg
cis-1,3-Dichloropropene	2U	ug/kg
trans-1,3-Dichloroprop+	2U	ug/kg
p-Bromofluorobenzene	92	% Recov
FLUOROBENZENE	99	% Recov
d8-Toluene	95	% Recov
d4-1,2-Dichlorobenzene+	108	% Recov
1,2-Dichloroethane-d4 +	98	% Recov

(Sample Complete)

EPA Region X Lab Management System
Sample/Project Analysis Results

Project: TEC-575A AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Blank ID: BW2245

VOA - PP Scan (GCMS) Blank #4	Sediment Result	Units
Carbon Tetrachloride	1U	ug/kg
Acetone	2J*	ug/kg
Chloroform	0.06J*	ug/kg
Benzene	0.03J*	ug/kg
1,1,1-Trichloroethane	1U	ug/kg
Bromomethane	1U	ug/kg
Chloromethane	0.04J*	ug/kg
Dibromomethane	1U	ug/kg
Bromochloromethane	1U	ug/kg
Chloroethane	1U	ug/kg
Vinyl Chloride	1U	ug/kg
Methylene Chloride	0.2J*	ug/kg
Carbon Disulfide	5U	ug/kg
Bromoform	1U	ug/kg
Bromodichloromethane	1U	ug/kg
1,1-Dichloroethane	1U	ug/kg
1,1-Dichloroethene	1U	ug/kg
Trichlorofluoromethane	1U	ug/kg
Methane, Dichlorodiflu+	5UJ	ug/kg
1,2-Dichloropropane	1U	ug/kg
2-Butanone	0.4J*	ug/kg
1,1,2-Trichloroethane	1U	ug/kg
Ethene, trichloro-	1U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	0.1J*	ug/kg
1,2,3-Trichlorobenzene	0.05J*	ug/kg
Hexachlorobutadiene	1UJ	ug/kg
Naphthalene	0.1J*	ug/kg
2-Chlorotoluene	1U	ug/kg
1,2-Dichlorobenzene	1U	ug/kg
1,2,4-Trimethylbenzene	1U	ug/kg
1,2-Dibromo-3-chloropr+	5UJ	ug/kg
1,2,3-Trichloropropane	1U	ug/kg
Tert-Butylbenzene	1U	ug/kg
Isopropylbenzene (Cume+	1UJ	ug/kg
p-Isopropyltoluene	1U	ug/kg
Ethylbenzene	1U	ug/kg
BENZENE, ETHENYL-(STYR+	1U	ug/kg
BENZENE, PROPYL-	1U	ug/kg
Butylbenzene	0.03J*	ug/kg
4-Chlorotoluene	1U	ug/kg
1,4-Dichlorobenzene	1U	ug/kg
1,2-Dibromoethane (EDB)	1U	ug/kg
1,2-Dichloroethane	1U	ug/kg
4-Methyl-2-Pentanone(M+	1U	ug/kg
1,3,5-Trimethylbenzene	1UJ	ug/kg

VOA - PP Scan (GCMS) *** Continued *** Blank #4	Sediment Result	Units
Bromobenzene	1U	ug/kg
Toluene	0.05J*	ug/kg
Chlorobenzene	1U	ug/kg
1,2,4-Trichlorobenzene	0.04J*	ug/kg
Dibromochloromethane	1U	ug/kg
Tetrachloroethene	1U	ug/kg
Sec-Butylbenzene	1U	ug/kg
1,3-Dichloropropene	1U	ug/kg
Cis-1,2-Dichloroethene	1U	ug/kg
trans-1,2-Dichloroethe+	1U	ug/kg
1,3-Dichlorobenzene	1U	ug/kg
1,1-Dichloropropene	1U	ug/kg
2-Hexanone	1U	ug/kg
2,2-Dichloropropane	1U	ug/kg
Ethane, 1,1,1,2-Tetrac+	1U	ug/kg
Total Xylenes	1U	ug/kg
cis-1,3-Dichloropropene	1U	ug/kg
trans-1,3-Dichloroprop+	1U	ug/kg
p-Bromofluorobenzene	96	% Recov
FLUOROBENZENE	98	% Recov
d8-Toluene	101	% Recov
d4-1,2-Dichlorobenzene+	102	% Recov
1,2-Dichloroethane-d4 +	98	% Recov

(Sample Complete)

Project: TEC-575A, AVERY RR DUMP AND ROUNDHOUSE Officer: MZR Account: FA1OPUZZ

Blank ID: BW2246

VOA - PP Scan (GCMS) Blank #1	Sediment Result	Units
Carbon Tetrachloride	2UJ	ug/kg
Acetone	3J*	ug/kg
Chloroform	2UJ	ug/kg
Benzene	0.02J*	ug/kg
1,1,1-Trichloroethane	2UJ	ug/kg
Bromomethane	2U	ug/kg
Chloromethane	0.04J*	ug/kg
Dibromomethane	2U	ug/kg
Bromochloromethane	2U	ug/kg
Chloroethane	2UJ	ug/kg
Vinyl Chloride	2U	ug/kg
Methylene Chloride	0.3J*	ug/kg
Carbon Disulfide	10U	ug/kg
Bromoform	2U	ug/kg
Bromodichloromethane	2UJ	ug/kg
1,1-Dichloroethane	2UJ	ug/kg
1,1-Dichloroethene	2U	ug/kg
Trichlorofluoromethane	2UJ	ug/kg
Methane, Dichlorodiflu+	10UJ	ug/kg
1,2-Dichloropropane	2U	ug/kg
2-Butanone	1J*	ug/kg
1,1,2-Trichloroethane	2U	ug/kg
Ethane, trichloro-	2U	ug/kg
ETHANE, 1,1,2,2-TETRAC+	2U	ug/kg
1,2,3-Trichlorobenzene	2U	ug/kg
Hexachlorobutadiene	2U	ug/kg
Naphthalene	0.2J*	ug/kg
2-Chlorotoluene	2U	ug/kg
1,2-Dichlorobenzene	2U	ug/kg
1,2,4-Trimethylbenzene	0.04J*	ug/kg
1,2-Dibromo-3-chloropr+	10U	ug/kg
1,2,3-Trichloropropane	2U	ug/kg
Tert-Butylbenzene	2U	ug/kg
Isopropylbenzene (Cume+	2U	ug/kg
p-Isopropyltoluene	2U	ug/kg
Ethylbenzene	2U	ug/kg
BENZENE, ETHENYL-(STYR+	2U	ug/kg
BENZENE, PROPYL-	2U	ug/kg
Butylbenzene	2U	ug/kg
4-Chlorotoluene	2U	ug/kg
1,4-Dichlorobenzene	2U	ug/kg
1,2-Dibromoethane (EDB)	2U	ug/kg
1,2-Dichloroethane	2UJ	ug/kg
4-Methyl-2-Pentanone(M+	2U	ug/kg
1,3,5-Trimethylbenzene	0.03J*	ug/kg

VOA - PP Scan (GCMS) *** Continued *** Blank #1	Sediment Result	Units
Bromobenzene	2U	ug/kg
Toluene	0.09J*	ug/kg
Chlorobenzene	2U	ug/kg
1,2,4-Trichlorobenzene	2U	ug/kg
Dibromochloromethane	2U	ug/kg
Tetrachloroethene	2U	ug/kg
Sec-Butylbenzene	2U	ug/kg
1,3-Dichloropropane	2U	ug/kg
Cis-1,2-Dichloroethene	2U	ug/kg
trans-1,2-Dichloroethe+	2U	ug/kg
1,3-Dichlorobenzene	2U	ug/kg
1,1-Dichloropropene	2UJ	ug/kg
2-Hexanone	2U	ug/kg
2,2-Dichloropropane	2UJ	ug/kg
Ethane, 1,1,1,2-Tetrac+	2U	ug/kg
Total Xylenes	0.02J*	ug/kg
cis-1,3-Dichloropropene	2U	ug/kg
trans-1,3-Dichloroprop+	2UJ	ug/kg
p-Bromofluorobenzene	91	% Recov
FLUOROBENZENE	101	% Recov
d8-Toluene	99	% Recov
d4-1,2-Dichlorobenzene+	110	% Recov
1,2-Dichloroethane-d4 +	93	% Recov

(Sample Complete)

RECEIVEL
APR 1 3 1993
SUPERFUND REMEDIAL BRANCH

Applied Geotechnology Inc.

TRANSMITTAL

RECEIVED
APR 19 1993
Div. of Environmental Quality
Community Programs

To: USEPA REGION 10 Date: 4/12/93
1200 SIXTH AVENUE; M/S HW-113
SEATTLE, WA. 98101

Attention: MS. ANN WILLIAMSON; SUPERFUND
Project: UPRR - POCATELLO SLUDGE PIT Number: 14,942 200
Subject: REPORTING

Quantity	Date	Description
1	3/93	MONTHLY REPORT 10

For Your:

☐ Distribution ☑ Use ☐ Records ☐ Review ☐ Approval ☐ Information

Remarks:

From: V.T. LASCKO Via: USPS

c. c. —

☐ P.O. Box 3885
Bellevue, WA 98009
FAX 206/646-9523
206/453-8383

☐ 2510 S.W. First Avenue
Portland, OR 97201
FAX 503/222-0141
503/222-2820

☐ 100 Hegenberger Rd., #210
Oakland, CA 94621
FAX 510/568-5710
510/568-9475

☐ 2501 East D Street, #215
Tacoma, WA 98421
FAX 206/627-7261
206/383-4380

MONTHLY PROGRESS REPORT 10 - MARCH 1993
REMEDIAL DESIGN/REMEDIAL ACTION ACTIVITIES
UPRR SLUDGE PIT NPL SITE
POCATELLO, IDAHO

To: Ann Williamson; Remedial Project Manager
USEPA Region 10; Superfund

From: Vincent Lascko; Project Manager
Applied Geotechnology Inc.

Period: March 1 through 31, 1993

GENERAL PROJECT ACTIVITIES

Activities: None.

Schedule: See the schedule sections for each activity.

REMEDIAL DESIGN ACTIVITIES

Supplemental Soil Chemistry Evaluation

Activities:

- Completed draft report; prepared for submittal.

Schedule:

- Submit draft version of Supplemental Soil Chemistry Evaluation report to USEPA Region 10, Idaho Dept. of Health and Welfare, and Union Pacific Railroad on April 2.

Supplemental Well Installation

Activities:

- Completed draft report; prepared for submittal to UPRR for review.

Schedule:

- Submit draft supplemental well installation summary report to USEPA week of April 19.

Background Groundwater Quality Evaluation

Activities:

- Began statistical evaluation of VOC and metals data from first four rounds of background groundwater sampling.

Schedule:

- Collect fifth round of groundwater samples April 5 and 6. Collect sixth (final) round of groundwater samples on April 29 and 30.

MONTHLY PROGRESS REPORT 10 - MARCH 1993
(continued)

Supplemental Hydrogeologic Investigation

Activities:

- March 1: Submitted final work plan to USEPA Region 10, Idaho Dept. of Health and Welfare, and Union Pacific Railroad.
- March 15: Conducted preliminary aquifer test, the results of which indicated a significantly higher flow rate was needed to adequately stress the Upper Aquifer. Temporarily terminated field operations to plan modified test.
- March 25: AGI issued work plan amendment addressing modifications to the aquifer test necessitated by the higher flow rate needed to adequately stress the Upper Aquifer.
- Conducted planning for amended test.

Schedule:

- Complete aquifer test April 1; begin analyzing data.
- Prepare interim Supplemental Hydrogeologic Investigation report to USEPA week of April 26 or May 3.
- Continue MODFLOW simulative flow modeling and begin predictive flow modeling using hydraulic characteristics determined by aquifer test.
- Continue interactive groundwater flow modeling/remedial design effort.

Soil Flushing Treatability Study

Activities:

- March 10: USEPA issued letter discussing various potential scenarios (with respect to the treatability study results) which could require special consideration by UPRR.
- Completed rinsing surfactant residue from all columns and collected leachate from treated soil. Submitted rinsate, leachate, and treated soil samples for chemical analysis. Two laboratory reports outstanding.
- Proposed additional effluent collection for more extensive chemical characterization. Received USEPA approval for this activity. Contacted various analytical laboratories and surfactant manufacturers regarding (nonionic and mixed anionic/nonionic) surfactant measurement capabilities. A laboratory capable of performing this analysis has not yet been located although one manufacturer, Witco Corporation, has indicated a willingness to assist.
- Continued efforts to gather biodegradability and environmental fate data for the two most promising surfactants.

MONTHLY PROGRESS REPORT 10 - MARCH 1993
(continued)

- All data gathered thus far has been tabulated and preliminary statistical evaluation begun.

- Final report preparation is in progress.

Schedule:

- Tap water will be collected from the site during the first or second week of April for additional chemical characterization. Soil columns will be set up and leached during the second or third week of April. Samples will be submitted for chemical analysis immediately upon completion of effluent collection.

- Report preparation will continue as data become available from the treatability study and other field activities.

Sludge and Soil Disposal Evaluation

Activities:

None.

Schedule:

- Receive USEPA response to Sludge and Soil Designation report April 1.

- Initiate actions necessary to define waste profiling procedure in April.

Pre-Remedial Action Groundwater Monitoring

Activities:

- Continue comparison of first round pre-remedial action groundwater results with historic chemical database.

Schedule:

- Collect second round of pre-remedial action groundwater samples on April 7, 8, and 9.

Remedial Design Work Plan

Activities:

- March 12: Received USEPA comments on Revision 1 of the RD Work Plan.

- S. Reimers and V. Lascko attended meeting with Ann Williamson (USEPA) on March 26, 1993 to discuss USEPA comments and AGI suggested revisions.

MONTHLY PROGRESS REPORT 10 - MARCH 1993
(continued)

Schedule:

- Anticipate completion of required revisions to RD Work Plan in April 1993. Require input from USEPA regarding ARARs (Idaho Solid Waste Management Regulations and Standards) prior to completing revisions.

Preliminary (35 Percent) Design

Activities:

- Continued preparation of design criteria report summarizing the capacity and capability of UPRR's wastewater treatment facility, and initiated reports outlining the areal extent of the soil flushing infiltration system.

- Initiated preparation of Project Delivery Strategy Report and Construction Quality Assurance Objectives Report.

- Continued preparation of preliminary design drawings for: 1) site preparation; 2) sludge pit excavation; 3) excavation for infiltration system installation; 4) infiltration and groundwater extraction system layout; 5) groundwater extraction pipeline routing, and; 6) piping and instrument diagrams.

Schedule:

- Preliminary Design is currently approximately 50 percent complete; anticipate submittal to USEPA in May 1993. Progress has been delayed slightly pending completion of RD Work Plan and completion of preliminary analysis of recent pump test results and predictive groundwater flow modeling.

Pre-Final (95 Percent) Design

Activities: None.

Schedule: Per overall RD/RA schedule.

Final Design

Activities: None.

Schedule: Per overall RD/RA schedule.

REMEDIAL ACTION ACTIVITIES

None.

COMMUNITY RELATIONS ACTIVITIES

None.

MONTHLY PROGRESS REPORT 10 - MARCH 1993
(continued)

PERSONNEL SUMMARY

Key Active Personnel

USEPA: Remedial Project Manager: Ann Williamson

ESD Support: Lorraine Edmond, David Frank

Oversight Contractor: Mike Cochran; SAIC

Idaho: IDEQ Representative: Rob Hanson

UPRR: Project Coordinator: Bob Markworth

AGI: Project Manager: Vincent Lascko

Hydrogeology/Infiltration & Groundwater Extraction: Tom Meyer

Chemistry/Groundwater Treatment: Ray Sadowski

Soil Flushing Treatability: Kathy Bourbonais

Site Managers: Jeff Thompson/Tom Meyer

Remedial Design: Stephen Reimers

Modifications

None.

PROBLEMS AND CORRECTIONS

None.

RD/RA SCHEDULE

The overall RD schedule has been updated and was submitted along with the Revision 1 of the RD Work Plan. The status of the RD schedule was discussed with USEPA during the March 26 meeting. It was agreed that the overall schedule is both logical and realistic. The schedule for planned RD and RD support activities in April 1993 is as follows:

PLANNED ACTIVITIES - APRIL 1993

Supplemental Soil Chemistry:

- Await any USEPA comments on draft report.

Supplemental Well Installation:

- Submit draft Supplemental Well Installation report to USEPA.

MONTHLY PROGRESS REPORT 10 - MARCH 1993
(continued)

Background Groundwater Quality Evaluation:

- Calculate background VOC and metal concentrations for first four groundwater datasets. Collect fifth round of groundwater samples and review at end of month. Collect sixth round of samples on April 29 and 30.

Supplemental Hydrogeologic Investigation:

- Complete aquifer test data analysis.
- Begin predictive groundwater flow modeling.
- Submit Interim Supplemental Hydrogeologic Investigation Report to UPRR and USEPA.

Pre-RA Groundwater Sampling:

- Collect second round of groundwater samples and review results at end of month.

Treatability Study:

- Collect additional tap water from the site.
- Perform additional effluent characterization activities.
- Continue final report preparation.

Remedial Design Work Plan:

- Complete Revision 2 of the RD Work Plan and submit to USEPA.

Preliminary Design:

- Continue preparation of preliminary design drawings, including piping and instrumentation diagrams, excavation plans, and groundwater extraction pipeline routing. Continue preparation of Design Criteria Report, Project Delivery Strategy Report and Construction Quality Assurance Objectives Report.
- Incorporate results of predictive groundwater flow modeling into preliminary design of in-situ soil flushing system.